



# HARSH KUMAR DEWANGAN



## ACADEMIC DETAILS

| Year | Degree / Board                   | Institute                             | GPA / Marks(%) |
|------|----------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Mechanical Engineering | Indian Institute of Technology, Delhi | 5.251          |
| 2009 | CBSE                             | JNV Mundali Cuttack ,Odisha           | 88.6           |
| 2007 | CBSE                             | JNV Mana Camp Raipur (C.G.)           | 85.2           |

## COURSES DONE

Intro. To Computers And Programming, Data Structures, Mechanical Vibrations, Project Management, Biomass Production, Gas Dynamics And Propulsion, Welding Science And Technology, Science Of Climate Change, Energy Systems And Tech., Reciprocating Intern. Com. En., Design And Metallurgy Of Welds, Advances In Welding, Thermal Mgmt. Of Electronics, Hydrogen Energy, Selected Topics In Linguistics, Language Acquisition, Teaching And Assessment, Theories Of Personality, Cad & Finite Element Analysis, Introduction To Combustion, Manufacturing System Design, Value Engineering And Life Cyc

## QUALIFYING EXAMS

- Joint Entrance Examination (JEE) Advanced Rank: 316 (OB)

## INDUSTRIAL TRAINING

**In-House Water Header Design For Roll Cooling**, TATA STEEL Jamshedpur - (May-July'15)

• Existing technology for roll cooling in rolling stand at the New Bar Mill was very old. My project was to calculate Volume flow rate of water in MS Excel for each Rolling stand for all the 14 rolling stands taking in account moody friction factor. The objective was to reduce the waste of water thus increasing the cooling efficiency and life cycle of cylindrical Rollers. Based on this data Dimension of **Water Header** required and number of Nozzles was decided as part of the Project.

## IIT DELHI THESIS

**Title:** Reconsolidation Of Titanium Chips Through **Equal Channel Angular Processing** (ECAP) Process.

**Supervisor:** Prof. Sudarshan Ghosh

**Description:** Waste Titanium chips from machining process are recycled through ECAP process via high shear deformation on bulk Titanium chips under hydrostatic pressure to produce ultra grain refinement and improved mechanical strength.

## SCHOLASTIC ACHIEVEMENTS

- Qualified for KVPY Fellowship award , 2009

## PROJECTS

- **SWOT** Analysis for revitalizing Cow Husbandry, marketability of milk and also proposed *novel Bio-waste collection and Bio-gas generation plant* focusing North India.
- **Variational Approach** to language acquisition using *Darwinian thinking* to critically analyze the loss of V2 (Verb in 2nd place in a argument/sentence) in Old French and Middle English.
- **Lempel-Ziv-Welch (LZW) Compression** for efficient storage of long stream of online data and analyse patterns for chunks of social-media data.

## TECHNICAL SKILLS

- MS Excel , MS Powerpoint , C , C++ , Java , Solidworks , CAD&FEM ,AutoCAD Workbench



# HEMANT SAHARIA



## ACADEMIC DETAILS

| Year | Degree / Board                   | Institute                              | GPA / Marks(%) |
|------|----------------------------------|--|----------------|
| ---  | B.Tech in Electrical Engineering | Indian Institute of Technology, Delhi  | 5.38           |
| 2011 | CBSE                             | St. Anselm's Pink City Sr. Sec. School | 76.4           |
| 2009 | CBSE                             | St. Anselm's Pink City Sr. Sec. School | 89.6           |

## COURSES DONE

Fundamentals Of Elect. Engg., Intro. To Analysis & Differential Equations, Engineering Mechanics, Introduction To Computer Science, Electromechanics, Digital Electronics, Circuit Theory, Probability & Stochastic Processes, Introduction To Computer Science, Industry And Work Culture Under Globalization, Materials Science, Engineering Electromagnetics, Power Engineering - I, Introduction To Computer Science, Computer Architecture, Intro. To Algebra & Matrix Analysis, Transportation Safety And Environment, Circuit Theory, Embedded Systems, Social Science Approaches To Development, Fundamentals Of Language Sciences, Human Virology, Information Theory, Communication Engineering, Energy, Ecology And Environment, Air-sea Interaction, Operating Systems, Communication Engineering Laboratory, Control Engineering I, Numerical Simulation Of Atmospheric And Oceanic Ph, Control Engineering - II, Biomedical Electronics, Control Engineering Laboratory, Creative Reading, Food Quality And Safety, Circuit Theory, Special Topics In Computers 1, Communication Engineering, Coding Theory, Computer Communication, Digital Image Processing, Multimedia Systems

## SCHOLASTIC ACHIEVEMENTS

- secured All India Rank 1 in Technothelon Prelimns conducted by IIT Guwahati in july 2009.
- participated in Technothelon event in Techniche'09 held during 3rd to 6th september 2009 at Indian Institute of Technology , Guwahati.
- Secured All India Rank under 600 in NSTSE 2009.

## PROJECTS

- EEP 211 Project
  - The Android application controlled robot communicates via Bluetooth to the Bluetooth module present on the robot. While pressing each button on the application, corresponding commands are sent via Bluetooth to the robot. . The arduino then checks the command received with its previously defined commands and controls the servo motors depending on the command received to cause it to move forward, backward, left, right or to stop. Thus allowing us to create an Android controlled robot.
- EEL710 Term Paper
 

Space-time block codes (STBC)codes are orthogonal and can achieve full transmit diversity specified by the number of transmit antennas. The data are constructed as a matrix which has its columns equal to the numberof the transmit antennas and its rows equal to the number of the time slots required to transmit the data.
- Experiments:
  - did various experiments in Digital Electronics ,Electromechanics ,Analog , Power Engineering , Electromagnetics , Control and Communications Laboratory .

## INDUSTRIAL TRAINING

- Railway Track Safety Monitoring System,\* Central Scientific Instruments Oganisation (may 2015 - July , 2015)
- Aim of this internship is to develop the crack detection system to avoid rail accidents using latest communication technologies .In this project GSM communication protocols were used to convey the message of crack detection via SMS . Crack detection was achieved by using the concept of eddy current losses implemented in the terms of darlington pair circuit.

## TECHNICAL SKILLS

- C , C++ ,Python , MATLAB

## EXTRA CURRICULAR ACTIVITIES

- Dramatics
 

Participated in the street play at Inter Hostel Level in 2011
- Cricket
 

Won bronze medal in inter hostel cricket tournament in the year 2012.  
Represented Satpura hostel in inter hostel cricket from 2012 to 2015 and girna hostel in the year 2017  
Runners up in intra-hostel cricket (Satpura) in the year 2013.
- Athletics
 

Part of the silver winning team for Satpura hostel in inter - hostel relay race in the year 2011.



# AVINASH SHISHIR KHALKHO



## ACADEMIC DETAILS

| Year | Degree / Board                        | Institute  | GPA / Marks(%) |
|------|---------------------------------------|--|----------------|
| ---  | B.Tech in Chemical Engineering        | Indian Institute of Technology, Delhi              | 5.07           |
| 2011 | Board of Intermediate Education, A.P. | Narayana Jr. College                               | 70.1           |
| 2009 | Central Board of Secondary Education  | Kendriya Vidyalaya Steel Plant<br>Visakhapatnam AP | 61.6           |

## IIT DELHI THESIS

**Title:** Animation to teach Kinetic Theory of Gases

**Supervisor:** Professor Rajesh Khanna

**Description:**

- Developed python code for visualizing kinetic motions of the gas molecules for assisting graduate developer intuition
- Used numpy, vpython and other modules to show **realtime** molecules in a box and their maxwell-boltzmann distribution

## INDUSTRIAL TRAINING

**Project Title :** Analysis Of Cooling System at Mechanical, Biological and Chemical Treatment Plant,

**Company Name :** Rashtriya Ispat Nigam Limited Visakhapatnam Steel Plant (May, 2017 - July, 2017)

**Description :** Enhanced the performance of flash unit in order to achieve a desired temperature drop of effluent hot water using analytical tools.

**Achievement :** Important changes were made to increase the efficiency of heat transfer in condenser for effective working of flash unit.

## PROJECTS

- **MATLAB Project on McCabe Theile Method (Professor Anil Verma)** (Month, Year - Month, Year) :
  - Developed a highly efficient code in **MATLAB** to study a distillation column and its parameters
  - Estimated the effect of variation of feed on the number of stages required via **Graphical Approach** in MATLAB
- **Time series analysis of Arctic Sea Ice Extent** (Month, Year - Month, Year) :
  - Time series prediction of daily arctic sea ice using **ARIMA model** in R
  - Reproduced the state of the art prediction model using **window sliding method with SVM** algorithms in Python

## TECHNICAL SKILLS

- C++, R, SQL, Python, Java
- Matlab, Excel, Aspen+

## EXTRA CURRICULAR ACTIVITIES

- **Online courses in Statistics with R, Duke University :**
  - Introduction to Probability and Data, Inferential Statistics ,Linear Regression and Modelling , Bayesian Statistics.
- **Online courses in Data Science Specialization :**
  - Data scientist's toolbox, R programming, Getting and Cleaning Data, Exploratory Analysis, Reproducible Research, Statistical Inference, Regression Models, Practical Machine Learning, Developing Data products
- **Machine Learning Specialization-online (coursera) :**
  - Machine Learning Foundations , Regression , Classification ,Clustering and Retrieval.
- **Sports** (2012-2015): Cricket, Volleyball and Table tennis  
Represented Kumaon House in **Inter-Hostel sports** tournament in three different games and secured **General Championship** for three consecutive years.
- **Music Club Member**(2013-2014):
  - Performed as lead vocals on House Day



# RATANLAL



## ACADEMIC DETAILS

| Year | Degree / Board                           | Institute                             | GPA / Marks(%) |
|------|--|---------------------------------------|----------------|
| ---  | B.Tech in Computer Science & Engineering | Indian Institute of Technology, Delhi | 5.024          |
| 2011 | CBSE                                     | JNV Alwar                             | 63.00%         |
| 2009 | CBSE                                     | JNV Alwar                             | 73.00%         |

## COURSES DONE

Introduction To Computer Science, Intro. To Algebra & Matrix Analysis, Discrete Mathematical Structures, Digital Electronics, Digital Electronics Laboratory, Data Structures, Analysis And Design Of Algorithms, Design Practices, Summer Internship - I, Probability & Stochastic Pro., Principles Of Artificial Int., Computer Networks, Programming Languages, Intro. To Database Mgmt. Syst.

## INTERNSHIPS

- **Acefinity Infotech Pvt. Ltd., Delhi** (May, 2017 - July, 2017) : *Android Application Development*
  - Developed the Restful API in PHP.
  - Developed an android application for online messaging using Android Studio.

## PROJECTS

- **Software Package for Engineering Drawing (Prof. Subhashis Banerjee)** (Jan., 2018 - Feb., 2018) : *course project*
  - Designed and implemented a software package for engineering drawing which takes input as 3D object model description and able to generate projections on any cutting plane.
  - Given one or more projections as input and able to recover the 3D description and produce an isometric drawing from any view direction.
- **Abstract Machine (Prof. Sanjiva Prasad)** (March, 2018 - March, 2018) : *course project*
  - Implemented call by name semantics through Krivine machine (in closure form).
  - Implemented call by value semantics through SECD machine.
- **Toy Prolog Interpreter (Prof. Sanjiva Prasad)** (April, 2018 - April, 2018) : *course project*
  - A symbolic interpreter of prolog was designed in Ocaml based on unification and backtracking. Ocamllex and Ocamlacc were used for lexing and parsing respectively
- **Reversi Game Using Virtual Input/Output Devices (Prof. Anshul Kumar)** (Jan., 2018 - Jan., 2018) : *course project*
  - Implemented Reversi(two player) game on ARMsim
  - "Embest Board Plug-in" in ARMsim provides the Virtual input/output devices.
- **Multicycle ARM Processor Design (Prof. Anshul Kumar)** (April, 2018- April, 2018) : *course project*
  - Designed all building blocks of the processor using VHDL.
  - Completed ARM datapath modules and implemented on BASYS3 board.
- **Records Database for ODI Cricket (Prof. Maya Ramanath)** (March, 2017 - March, 2017) : *course project*
  - Scrapped and cleaned the ODI data from the ESPN website using python.
  - Developed a website where user can get the data in a more organised way according to the query they make.
- **3D Tic Tac Toe (Prof. Saroj Kaushik)** (August, 2017 - August, 2017) : *course project*
  - Implemented a 3D tic tac toe game using magic cube strategy.
- **Page Load Dynamics Analysis (Prof. Aaditeshwar Seth)** (Sept., 2017 - Sept., 2017) : *course project*
  - Get HAR JSON file from chrome developer tool and parsed it with python scripts.
  - Analysed all the content downloaded and page load timing for different responsive and non-responsive websites and answer the queries in readable format.

## TECHNICAL SKILLS

- **Languages:** C, C++, Java, Python, PHP, SML, OCaml, Lex, Yacc, VHDL, PostgreSQL, Prolog, ARM(assembly language)
- **Software:** Latex, Matlab, Xilinx, Eclipse, Pycharm, Android Studio, Wireshark
- **Web:** HTML, CSS, Javascript

## EXTRA CURRICULAR ACTIVITIES

- **Design and Manufacturing Board Game for Visually Impaired Kids** (May, 2014 - July 2014):
  - Completed as project under Social Innovation Cell (SIC), National Service Scheme (NSS).
  - Design and Manufactured 1 double player and 2 single player board game for entertainment of blind kids.



# VIKASH KUMAR PAL



## ACADEMIC DETAILS

| Year | Degree / Board                   | Institute                             | GPA / Marks(%) |
|------|----------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Mechanical Engineering | Indian Institute of Technology, Delhi | 5.21           |
| 2011 | BSEB                             | Ram kishore singh inter collage       | 66.4           |
| 2009 | BSEB                             | High school prem nagar                | 70.2           |

## COURSES DONE

Intro. To Computers And Programming, Mathematics II, Mathematics-I, Experimental Methods And Analysis, Design Innovation & Manufacturing, Kinematics & Dy. Of Machines, Energy, Ecology And Environment, Control Theory And Applications, Self-organizing Dynamical Systems, Noise Engineering, Production Management, Plant Equipment Design, Design & Metallurgy Of Welded Joints, Tribological System Design, Calculus, Research Techniques In Biomedical Engineering, Intermediate Heat Transfer, Convective Heat Transfer

## IIT DELHI THESIS

**Title:** analysis of torsional vibration in a rotor system

**Supervisor:** s. p singh

**Description:** torsional natural frequencies and mode shapes usingNewton's second law of motion, and using the systematic transfer matrix method (TMM)

## PROJECTS

- **Generation of Two Stage Guillotine Cutting Pattern - Computer Aided Mfg** (Apr, 2016 - May, 2016) :
  - Developed a Mathematical Model for Generation of Cutting Patterns and Wastage Calculation.
  - Implemented a Heuristic Algorithm for generating Efficient , Low waste Cutting Patterns.
  - Designed a Program for Visual display of the cutting Patterns and Wastage Zones.
- **Scientific Calculator Android App Development** (May, 2017 - July, 2017) :
  - Implemented Text processing with Tokenization and Parsing of Text.
  - UI/UX design for the App with Responsive design for many device sizes.
- **Marketplace Web App** (July, 2017 - Aug, 2017) :
  - Responsive and Dynamic Front End Design using Angular 4 and Bootstrap.
  - Building Multi Page App with routing using Express, NodeJs. Using MongoDB for Database Requests
- **Picture Quiz Android App** (Jan, 2017 - Mar, 2017) :
  - Designed UI/UX for single player quiz app with timers, scoreboards.
  - Used Php based server to fetch pictures and names from Mysql database for quiz.

## TECHNICAL SKILLS

- Android Development , Mean Stack Development , Python , R , C++, Java , JavaScript, SQL,Php.
- Matlab/Octave , Fluid-Sim , Creo Parametric , Solidworks , Excel.

## EXTRA CURRICULAR ACTIVITIES

- **Online courses in Statistics with R, Duke University :**
  - Introduction to Probability and Data, Inferential Statistics ,Linear Regression and Modelling , Bayesian Statistics.
- **Machine Learning Specialization-online(coursera) :**
  - Machine Learning Foundations , Regression , Classification ,Clustering and Retrieval.
- **Online courses in Data Science Specialization :**
  - Data scientist's toolbox, R programming, Getting and Cleaning Data,Exploratory Analysis, Reproducible Research, Statistical Inference, Regression Models, Practical Machine Learning,Developing Data products
- **Online courses in Full Stack Web Development Spec :**
  - Front End Web Ui, Front End - Angular, Multi Platform MobileApp Techs - Ionic and Cordova, Mobile App Dev in NativeScript.
- **Online courses in Android App dev Specialization :**
  - Java for Android. Android App Components, , EngineeringMaitable Android Apps
- **time series analysis of arctic seaextent**
  - time series prediction of daily arctic sea ice using **ARIMA MODEL** in R
  - reproduced the state of the art predication model using window sliding method with **SVM algorithoms** in python



# SAQIB ANSARI

## ACADEMIC DETAILS

| Year | Degree / Board  | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech and M.Tech in Biochemical Engg & Biotechnology | Indian Institute of Technology, Delhi | 4.978          |
| 2012 | CBSE  | Raj English School Shivpura           | 81%            |
| 2010 | CBSE  | Sunbeam School Varuna                 | 9.6            |

## PROJECTS

- **Theory for F1-ATPase Molecule Imaging Experiments**- MTech Project (Professor Sunil Nath) (July,'18 - Present):
  - Reviewed and Simulated the model of elastically coupled reactions for single-molecule imaging and rotor manipulation experiments on F1-ATPase considering stalling experiments.
  - Tested theory to predict the dependence of rate and equilibrium constants on stalling angle for binding and release steps.
- **Art, Technology and Prototyping** (May, 2016 - July, 2016) :
  - Created a moving designed sculpture that two gears made using laser cutting. It worked due to gravity. A weight was tied to the sculpture using rope and the entire system was kept at a certain height. When the weight was released, the gears start to move and the periodic interaction between them gave a certain kind of illusion effect.

## EXTRA CURRICULAR ACTIVITIES

- **Dance:** Featured in National level talent shows and competitions as part of V-Defyn Dance Academy as Lead performer  
 Professional and National Level: Delivered 50+ onstage performances with 28 podium finishes in group & duo events
  - **Winners**, Desi Beats among 30+ participating teams in Asia's Biggest College Fest, **Mood Indigo**, IIT Bombay (2014)
  - **Runners Up**, Western Group Dance Competition, **Rendezvous** for 4 consecutive years, competing 70+ National Level teams (2014-17)
  - **Runners Up**, Group Dance Competition, **Inter IIT Cultural Meet** among 16 participating IITs, Lead Performer and Choreographer (2017)
  - Institute Level: Choreographed & performed in all BRCA Dance Club events for 3 consecutive years
  - **Winners**, Duo Dance Competition for 2 years among 13 participating hostels, choreographing a team of 8 (2014,2016)
  - Awarded '**Best Fresher in Dance Club**' in the Fresher year for showcasing promising proficiency and outstanding performances(2013-14)
  - Awarded '**Outstanding Contribution to Dance Club**', highest Institute honor in the club for consistent efforts and mentorship(2016-17)
- **Music:** Awarded **Best Ghazal**, Mehfil, an institute level event to mentor and showcase freshers' talent (2014)
  - **Winners**, Inter Hostel Dhwani Competition, organized among 13 teams by BRCA, IIT Delhi (2014)
  - Awarded '**Significant contribution in Cultural activities**' for actively representing hostel in institute level activities(2015)
- **Sports:**
  - **Hostel Weight-lifting Captain**, Conducted regular hostel workshops, purchased new equipment from hostel budget for gym renovation
  - **Vice-Captain**, Hostel Cricket Team: **Winners**, Inter Hostel Cricket Tournament among 13 other participating hostels(2014)
  - Awarded '**Gem of Aravali**' for exceptional contributions in cultural, sports and hostel management activities (2017)

## POSITIONS OF RESPONSIBILITY

- **President, V-Defyn Dance Society** (Jan, '16 - April, '17): Titled '**Most Explosive B-fab Team**' at DanceXplosion'15-17
  - Spearheaded a team of 15 clinching 22 podiums in various National Level Dance Competitions across DU
  - Organised and conducted professional Hip-Hop dance workshops for IIT Delhi students, tutoring 100+ novices
- **Director, Institute Dance Troupe** (Jan,'16 - Oct,'16) :
  - Director and Choreographer of all the major events of the Institute, promoting & motivating the art to an ensemble of 40+
  - **Western Group Dance, Rendezvous, IIT Delhi** (July,'16- Oct '16): Biggest cultural platform in India
  - Administered auditions, Shortlisted 30+ out of 70+ candidates to represent the college in a **National Level Competition**
  - **Remodelled logistics** management to include relevant stage props & innovative costume within shoestring budget
  - **Institute Dance Production**(Jan, '16-April,'16): Annual endeavor to discover & foster talent among freshers
    - Managed a team of 40+ novices, Grooming & motivating beginners to put up an extravagant dance performance
    - Revolutionized performance horizons by introducing and showcasing a new different genre of '**Krumping**' in IIT Delhi
- **Coordinator, Inter-IIT Sportech,Events** (Jan, '16 - March, '16) :
  - Led a team of 8 members, implementing ideas and organising various informal events
  - Organised **Campus Run** under the IvyCap ventures Advisors Pvt Ltd across 8 IIT's in a span of 10 days
  - Conducted feedback of participants and advised organisers and hostel management of ways of betterment

## TECHNICAL SKILLS

- MATLAB, R Programming, C++, Autodesk Inventor Professional, MS Office



# SHILPA KAMBOJ



## ACADEMIC DETAILS

| Year | Degree / Board  | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech and M.Tech in Biochemical Engg & Biotechnology | Indian Institute of Technology, Delhi | 5.788          |
| 2012 | C.B.S.E   | J.N.V Sitapura (Rajasthan)            | 78%            |
| 2010 | C.B.S.E   | J.N.V Odhan (Haryana)                 | 9.4            |

## SCHOLASTIC ACHIEVEMENTS

- **Co-authored Research Paper in a Peer Reviewed International Journal, 2018 :** Exploiting Nitrogen Metabolism for Survival and Virulence by Intracellular Parasites, **Journal of Proteins and Proteomics, Communicated.**
- **Joint Entrance Examination (JEE) Advanced, 2013:** Secured All India Rank 2388 (OB).
- **Graduate Aptitude Test in Engineering (GATE), 2018:** Secured All India Rank 881.

## IIT DELHI THESIS

**Developing an Adsorption Based Process for Separation of Monosaccharides and Disaccharides from Fructo-Oligosaccharides (May 2017- June 2018)** under Supervision of **Professor Saroj Mishra**

- Experimentally Analyzed Surface Characteristics, Thermodynamic Profiles and Kinetic Behavior of Dianion UBK530Na.
- Studied Single Component and Binary Adsorption Equilibria of Monosaccharides and Disaccharides and Optimized Time, Temperature and Concentration Profiles for their Removal and Achieved Cost Efficient Enrichment of FOS.

## PROJECTS

### L-Asparaginase as a New Molecular Target against Tuberculosis (Jan 2017 - July 2017)

- Execute Modeling and Simulation for Biochemical and Biophysical Characterisation of *L*-Asparaginase (*L*Asp).
- Proposed *L*Asp as Metabolic Target based on its Specific Inhibition & Identified Potential Inhibitors by Virtual Screening.

### Designing of Pendulum Clock, (December 2016 - April 2017)

- Designed CAD Prototype with Reduced Interaction between Detached Escapements and Oscillator of Pendulum Clock.
- Developed Working Model with Improved Horology along with Cost-Effective Constructing and Manufacturing Process.

### Bioprocess Plant Design for Production of Ethanol (July 2017 - Nov 2017)

- Prepared Detailed Mechanical Design of All Major Equipment, Supplemented with Piping and Instrumentation of Large-Scale Production Plant for an Annual Production of 400 Tons of Cellulose.
- Carried Out Detailed Economic Analysis of Proposed Industry to Project an Annual Profit.

### Metabolically Engineered *Escherichia coli* for the Production of Succinate from Glycerol (July, 2016 - Nov, 2016):

- Analyzed Over-expressing Pyruvate Carboxylase and Pyruvate Formate-Lyase pflB) Effect on Succinate Production.
- Studied Existing Engineered Microorganisms to Identify nature of Missing Carbon for Improved Carbon Recovery.

### Aggregation of Proteins Under Different Physico-Chemical Conditions, (Sep 2017 - Jan 2018)

- Analyzed Aggregation Behavior of Amyloidogenic Proteins Under Influences of Various Physico-Chemical Stresses.
- Executed Virtual Aid Variations to Alter its Key Aggregation Properties to Decrease Risk Factors for AD.

## INTERNSHIPS

### Pravah, Delhi based NGO (December 2013 - January 2014)

- Volunteered for Ajmer (Rajasthan) based NGO, Manthan Kotri to Empower Marginalised and Excluded Communities.
- Organised Training Camps for SHGs Skills, Watershed Management and Operation of Reverse Osmosis (RO) Plants.
- Servile Teacher in Night Schools, Crèche and Village Women's School And Conducted Bridge Courses.

## COURSES DONE

Introduction To Computer Science, Molecular Biology & Genetics, High-dimensional Biology, Bioprocess Engineering, Process Dynamics And Control, Calculus, Bioprocess Technology, Enzyme Science And Engineering, Bioseparation Engineering, Bioprocess Plant Design, Metabolic Regulation And Engg., Bioinformatics, Dynamics Of Microbial Systems, Combinatorial Biotechnology, Genomics And Proteomics, High Resolution Methods In Bi., Bionanotechnology

## TECHNICAL SKILLS

- **Programming Languages :** Python, Java, HTML
- **Software Packages :** Eclipse, AutoCAD, SolidWorks, AutoDesk Inventor, MATLAB, Autodock-vina

## EXTRA CURRICULAR ACTIVITIES

- Awarded 'Certificate of Appreciation' for Co-Organizing Parivartan, 2016 at DMS IIT Delhi as Security Coordinator.
- Designed Cost Efficient Bowl Centrifuge and Received 'Certificate of Participation' in Open House, 2016\* at IIT Delhi.
- Collaborated in The Art Of Living Youth Empowerment and Skills Workshop (Yes!+), 2015



# MOHIT CHOURDARY



## ACADEMIC DETAILS

| Year | Degree / Board                           | Institute                             | GPA / Marks(%) |
|------|--|---------------------------------------|----------------|
| ---  | B.Tech in Computer Science & Engineering | Indian Institute of Technology, Delhi | 6.067          |
| 2012 | C.B.S.E                                  | SMT GODAVARIBAI RP S S S              | 86.6 %         |
| 2010 | C.B.S.E                                  | SMT GODAVARIBAI RP S S S              | 9.6            |

## COURSES DONE

Linear Algebra & Differential Equations, Discrete Structures, Digital Logic And Design, Probability & Stochastic Pro., Design Practices, Computer Networks, Analysis & design Of Algorithms, Principles Of Artificial Int., Programming Languages

## QUALIFYING EXAMS

- Joint Entrance Examination (JEE) Advanced Rank: 56 (OB)

## PROJECTS

- My Dropbox**(Course Project)(Prof. Huzur Saran)(Feb, 2015 - Mar, 2015) : A secured online file management system
  - Secured and lossless data transfer using TCP/IP and SSL encryption.
  - Added GUI design and file history management by Qt application creator.
  - Featured with simultaneous logins, syncing, sharing and history management.
- COP007**(Course Project)(Prof. Huzur Saran) (Apr,2015-May, 2015): A first-person-shooter 3D online multiplayer game
  - Implemented Peer-to-peer networking with TCP protocol & used SDL library via OpenGL.
  - Designed characters with artificial intelligence to traverse maze and interact with other players.
- Graphics Design**(Course Project)(Prof. Huzur Saran)(Jan,2015-Jan,2015) : A dynamic 3D desktop application
  - Conceptualised and programmed a 3D interactive desktop application in OpenGL.
  - Handled movements and collisions with inter threading and synchronisation by using pThreads
- Prolog Interpreter**(Course Project)(Prof. Sanjeeva Prasad) (April,2018): Modelled on principal of unification with Ocaml
- Abstract Machines** (Course Project)(Prof. Sanjeeva Prasad) (Mar,2018-Mar,2018): Designed in Ocaml
  - Implemented call by name semantics through Krivine machine and call by value semantics through SECD machine
- Processor Design**(Course Project)(Prof. Anshul Kumar) (Mar,2018-Apr,2018) : Multicycle Arm Processor
  - Used VHDL to design ARM datapath modules implemented on BASYS3 board
- Energy Growth in Fermi Accelerators** (Prof. Kushal Shah) (Aug,2014-Feb,2015) : Statistical Simulation Modeling
  - Simulated single particle dynamics in trapezium models of Fermi acceleration to study energy growth
  - Exploited MPI (C++) and arbitrary precision methods to enhance accuracy of simulations
  - **Achievement:** Procured statistics for energy growth with collisions of up to  $10^8$  particle collisions.
- RUTAG Tech.** (Prof. Nomesh Bolia) (May,2015-July,2015): Impact assessment & improvisation on TulsiMala Machine
  - Interviewed 4+ stakeholders under market study done in Bharatpur
  - Articulated technology related gaps and scope of improvement based on identified product shortcomings
- Education Paradigms in Indian Context** (Prof. Nomesh Bolia) (May,2017-July,2017): Research on Indian Education system and Curriculum Design
  - Researched on Education system through lens of History via government reports, books & relevant people in this area
  - Collected ideas on methodologies like TiE, MI, C3 Framework to cover unmitigated parts of Educational Pedagogies
  - **Achievement:** Designed learning objectives and outcomes for history as a subject, with enhanced mini-curriculum for mid school kids inspired from best practices found in research

## TECHNICAL SKILLS

- Languages:**Java, C, C++(SDL,openMPI,openGL,openMP), Python, Ocaml, Prolog; **Softwares:** Android Studio, Logisim, Matlab, Qt Creator, Xilinx, Latex; **Hardware:** RasPi 3, VHDL, FPGA, BASYS3; **Web:** HTML, CSS, PHP, Javascript

## POSITIONS OF RESPONSIBILITY

- Publicity and Outreach Coordinator**, An Initiative for National Advancement, AINA (Apr,2015-Apr,2016):Campus based organization working towards student engagement for nation building
  - Moderated group discussions on contemporary issues of national/social relevance
  - Facilitated Health Camp,Talent Hunt & Community Development programs at Munirka slum (motilal nehru camp)
  - Facilitated talks by Sanjeev Sanyal, Hindolsen gupta, Sankrant Sanu and several other prominent people
- Lead, Instructional Design**, History Diaries (Sep,2016-May,2018) : A startup in the field of Holistic Education
  - Summarized 10 years of research on Dandi March for theatrical performance for 400 students
  - Designed 4-week educational program for class 6 connecting History with their present
  - Coordinated delivery of the educational program in 2 schools in Delhi-NCR serving 120 students



# KARAN GOYAL

## ACADEMIC DETAILS

| Year | Degree / Board   | Institute                             | GPA / Marks(%) |
|------|--|---------------------------------------|----------------|
| ---  | B.Tech in Mechanical Engineering and M.Tech in Mechanical Design | Indian Institute of Technology, Delhi | 8.695          |
| 2013 | All India Senior School Certificate Examination, CBSE            | S.N.D Public School, Palwal.          | 94.6%          |
| 2011 | All India Secondary School Examination, CBSE                     | Modish Public School, Hathin          | 9.8            |

## QUALIFYING EXAMS

- Joint Entrance Examination (JEE) Advanced Rank: 389 (GE)

## SCHOLASTIC ACHIEVEMENTS

- MHRD Scholarship** : Accredited with research fellowship by the Government of India for excellence in academics [2018]
- Indian Road Safety Campaign and TRIPP-IIT D** : National Level Runner-up at Technical Paper Presentation [2017]
- Kishore Vaigyanik Protsahan Yojana Scholar**: Awarded by Department of Science & Technology, Government of India [2012]
- District Level Science Quiz**: Obtained 1st position in the competition and represented school at Intra State level [2013]
- CBSE Certificate of Merit** for being among **top 0.1%** candidates in Chemistry, class XII (Scored 100% marks) [2013]

## INTERNSHIPS

- Grandpitstop, Gurugram** (May, 2016 - July, 2016) : *Design and Fabrication of CoolGear pads*
  - Designed CoolGear pads based on **cooling effect of evaporation** to avoid adverse effects of heat stroke on bikers
  - Iterated many prototypes in accordance to rider comfort; achieved 40-degree Celsius gradient across pads interface
  - Received *Letter of Recommendation* for remarkable contribution in development of CoolGear pads by CEO of company
- Shree Cement Limited, Ras** (May, 2017 - July, 2017) : *False Air Arrest and Heat Recovery from Hot Clinker*
  - Recovered significant heat from the hot clinker dust by installation of a cooler for **After Quenching Chamber** boiler
  - Suggested to switch currently used welding technology to reduce welding crack and reduction in penetration of false air

## PROJECTS

- Master's Thesis : MTW-Pedestrian Impact Studies (Prof. S. Mukherjee & Prof. A. Chawla)** (May, 2018 - Present) :
  - Objective of the work is to formulate mathematical constructs that help in prediction of leg injury trauma during crashes
  - Developed FE model of human leg including muscles based proper activation models using Hypermesh & LSDYNA
  - Dynamics based motion planning of human leg will be implemented using an appropriate model based control algorithms
- Motion prediction of a non-holonomic system (Prof. S.K. Saha)** (Aug, 2017 - Nov, 2017) :
  - Implemented Runge-Kutta to solve NE equations for a rolling system in MATLAB & analyzed conditions for stability
  - Predicted 3-D trajectory regimes by critical analysis of system's eigenvalues. *Stability loops* generated for analysis
- Estimation of Mechanical Properties of Graphene using LAMMPS (Prof. D.K. Dubey)** (Jan, 2017 - April, 2017) :
  - Performed *Atomistic modeling of nanoscale Graphene sheets* using numerical computations of Molecular Dynamics
  - Calculated Young's Modulus at different strain rates and temperatures using LAMMPS and validated through literature
- Simplex Method for Resource Optimization (Prof. Kiran Seth)** (Aug, 2016 - Nov, 2016) :
  - Implemented Simplex Method's algorithm in C++ to optimize resource variables in given Linear Programming Problems
  - Inculcated extensions like *Dual Simplex, Revised Simplex* to decrease overall time-order complexity of the algorithm
- Numerical Methods & Computation for Linear/Non-Linear Problems (Prof. Harish Kumar)** (July, 2016 - Nov, 2016) :
  - Implemented Numerical Differentiation/Integration, Least Squares approximation, Spline interpolation algorithms in MATLAB
  - Included appropriate **error models** for complete and robust numerical analysis of Linear/Non-Linear problems
- Analysis between Health and Mess food consumption (Prof. Aparna Mehra)** (Feb, 2016 - Apr, 2016) :
  - Modeled statistical hypothesis testing through t-distribution on survey data with 95% Confidence Interval through R

## POSITIONS OF RESPONSIBILITY

- Mentor at Avanti Fellows (Pan IIT Alumni initiative for meritorious students)** (Sep, 2016 - July, 2017) :
  - Provided one on one mentoring to students preparing for IIT-JEE and various engineering entrance examinations
  - Conducted regular doubt solving sessions and guided fellows to maintain their academic and mental well-being
- Hostel Representative, Board for Students Welfare, IIT Delhi** (Mar, 2014 - Dec, 2014) :
  - Managed admission & registration process of freshers, helped them throughout their 1st year to adjust in campus
  - Core member of the team responsible for conducting and organizing the annual college fest *SPERANZA 2014*

## TECHNICAL SKILLS

- C++, R, MATLAB, SOLIDWORKS, ANSYS, LSDYNA, MADYMO, ABAQUS, AUTODESK, LAMMPS, VMD, FLUIDSIM



# SAURABHDEEP SINGH DEOPURI



## ACADEMIC DETAILS

| Year | Degree / Board                       | Institute                             | GPA / Marks(%) |
|------|--------------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Mechanical Engineering     | Indian Institute of Technology, Delhi | 5.005          |
| 2012 | Central Board of Secondary Education | Kendriya Vidyalaya No-2 DMW Patiala   | 60.2%          |
| 2010 | Central Board of Secondary Education | Kendriya Vidyalaya No-2 DMW Patiala   | 7.2            |

## TECHNICAL SKILLS

- c, c++, java , html,html5
- AutoCAD, AutoDesk, MATLAB, Ansys Workbench, Ansys APDL

## INTERNSHIPS

- **Diesel Loco Modernisation Works**, Indian Railway, Patiala (Punjab) (May, 2016 - July, 2016)
- **Directorate of Economics and Statistics Department of Planning Government of Rajasthan**, Jaipur(May 2017 - July 2017) : Yuva Vikash Prerak

## POSITIONS OF RESPONSIBILITY

- Institute Athletics Team captain(Aug, 2016- Apr, 2017)
  - Lead the team of 18 member and Winner of Athletics championship in 50 year in my tenure.
- Event Coordinator, Sportech (Jan, 2016 - Mar, 2016) :
  - Sportech is IIT Delhi's Annual Sports festSupervised registration and ensuring successful execution of various events.
  - Synchronized with coordinators to have proper functioning of events without any glitches.
  - Conceptualised and organised all respective events including logistics managing teams over a span of 4 days.
- Hostel Captain, BSA (Aug, 2013 - Apr, 2016) :
  - As captain lead hostel Athletics team and improve position from 9th to 1st position during the tenure.

## PROJECTS

- Thermal Comfort in Car(Prof. Bani ray)(Aug, 2017 - Nov, 2017): Determine the Factors affecting the thermal comfort in the car

## EXTRA CURRICULAR ACTIVITIES

- **National Level**: Member of the **Inter IIT Contingent for 5 years**.
  - **Silver** Medal Pole Vault, Inter IIT Sports Meet at Madras(2017). Break the previous record.
  - **Bronze** Medal 5000m at Inter IIT Sports Meet, Bombay (2014)
  - **Bronze** Medal 5000m at Inter IIT Sports Meet, Gauhati (2013)
  - **Bronze** Medal 1500m at Inter IIT Sports Meet, Bombay (2014)
  - **Bronze** Medal 800m at Inter IIT Sports Meet, Bombay (2014)
  - **Gold** in 1500m, Gold in 4x400m relay BOSOM BITS Pilani 2015.
  - **Gold** 4x100m relay, gold 4x400m relay, bronze in 400mH Inter IIT sportech 2015. **Gold** in pole vault in Sportech 2016.
  - **Silver** in 1500m, **Silver** in 4x400m relay, Sportech 2014, **Gold** in pole vault, **Bronze** 4x100 relay, Sportech 2016.
  - **Bronze** in 4x400m relay, Udghosh 2013, **Bronze** in triathlon (long jump, shot-put, 100m) Sangram 2018
- **Inter Hostel**
  - **Silver** in 800m (2013-14), **Gold** in 800m, **Gold** in 1500m, **Bronze** in pole vault, **Bronze** in long jump, **Bronze** in 400m (2014-15)
  - **Winner**, Inter Hostel Athletics Tournament (2015-16) and awarded as Best Athlete for the Tournament.
  - **Gold** in 5000m, **Bronze** in 400mH, **Gold** in 4x100m relay, **Gold** in 4x400m relay, **Silver** in 100m, **Silver** in 400m, **Silver** in 400mH, **Silver** in 110mH, **Silver** in 800m, **Silver** in triple jump, **Silver\*** in pole vault.(2015-16)
  - **First Runner up** in athletics championship (2014-15). **Winner** in inter Hostel Football Tournament(2014-15)
  - **Bronze** in inter Hostel Football Tournament(2014-15)
- **Winner** of Freedom Run Among the 200+ participant (2014). **First runner Up**, Freedom run(2015), **2nd Runner Up**, Freedom Run(2016)
- **Awards**
  - Best NSO player (2013-14)
  - Pride of Girnar(2015-16)
  - Significant contribution to BSA(2015-16)
  - Cumulative Contribution to BSA(2016-17)



# ADARSH KUMAR



## ACADEMIC DETAILS

| Year | Degree / Board                               | Institute                             | GPA / Marks(%) |
|------|--|---------------------------------------|----------------|
| ---  | B.Tech and M.Tech in Mathematics & Computing | Indian Institute of Technology, Delhi | 6.818          |
| 2013 | AICBSE                                       | Shree Ram Ideal School, Hisar         | 90.4           |
| 2011 | AICBSE                                       | Holy Angel School, Hisar              | 10             |

## COURSES DONE

Data Structures And Algorithms, Microeconomics, Linear Algebra & Applications, Discrete Mathematical Struc., Introduction To Economics, Optimization Methods & Appl., Real And Complex Analysis, Computing Laboratory, Computer Architecture, Selected Topics In Philosophy, Managerial Acc. & Finac. Mgmt., Algebra, Analysis &design Of Algorithms, Design And System Laboratory, Critical Thinking, Differential Equations, Probability & Stochastic Pro., Statistical Methods, Fuzzy Sets And Applications, Theory Of Computation, Computational Neuroscience, Numerical Methods& Computation, Operating Systems, Combinatorial Optimization, Financial Mathematics, Comp. Methods For Differ. Equ., Introduction To Game Theory, Embedded Systems, Financial Mathematics, Data Mining

## IIT DELHI THESIS

**Title:** Measure theory, Probability and Stochastic processes : An Application in Finance

**Supervisor:** Amit Priyadarshi

**Description:** Exploration of an integral that improves on the classical Riemann integral, the Lebesgue integral.

- Understanding measure theory and exploring Lebesgue integral, the convergence theorems and the spaces of Lebesgue integrable functions and understanding a recent development in integration, the Henstock-Kurzweil integral.
- Understanding Probability measure theory and the properties of probability measure such as Independence and further exploring the results in probability theory such as Laws of Large numbers, Central Limit Theorems and more.
- Exploring Stochastic Processes and Markov Chains and an application in finance: The Black Scholes Model for Option Pricing.

## PROJECTS

- **Mathematical Modelling Of Emotions (Tapan Kr. gandhi)** (July, 2016 - May, 2017) : Building of an autonomous model that emulates the generation of emotions, taking into account the environmental and "person" specific variables. We review and discuss the components and tools (ART networks, HMM models, etc.) for building the computational and cognitive model based on appraisal theory of emotions.
- **Economic Analysis of Greece Debt Crisis** (Oct, 2015 - Dec, 2015) : An economic, financial and sociological analysis of the 2008 Greece debt crisis.
- **Building a model compression application** (Sept, 2014 - Oct, 2014) : We used the LZW compression algorithm which employs turning repetitive strings into numerical codes. Implemented using a Hash Table.
- **A mini social platform** (Oct, 2014 - Dec, 2014) : The application employed the concept of Erdos Number. It employed the graph algorithms such as BFS and Dijkstra's for implementation of it's features.

## TECHNICAL SKILLS

- C++ (intermediate), Python (intermediate), HTML5 (beginner), VHDL.
- Matlab, AutoCAD, LaTex, MS Office.

## INTERNSHIPS

- **PRAVAH, New Delhi / AAEA, Sarwar** (Dec, 2013 - Jan, 2014) : *SMILE In-turn-ship* A social internship, I volunteered with a NGO (AAEA, Sarwar, Rajasthan) with my work profile including welfare and education of underprivileged children, cast outs and surveying of villages to design maps. Interacting with people of a different ethnicity, despite a mismatch of language, helped understand the basic core principles people believe in.

## EXTRA CURRICULAR ACTIVITIES

- **Charcoal Painting** - Participated in Inter-Hostel Charcoal Painting Competition, 2013.
- **Stage Acting** - Participated in Inter-hostel Stage Play Competition, 2014 with our team securing 3rd position overall.
  - A part of executive/production team of the Stage Play team, IIT Delhi in 2 events, Rendezvous 2014 and Thomso 2014.
- **Movie Making** - Participated in the Inter-hostel Movie Making Competition as an actor, writer and assistant director.
- **Mask Painting** - Participated in Mask-Painting Competition, 2014 at an institute level.
- **Judo** - Participated and came 3rd in the State Level Championship, Uttarakhand.
- **Other interests** - Reading fiction and non-fiction with topics in varied fields such as Philosophy, Economics, History; writing poetry; a music enthusiast.



# VISHAL



## ACADEMIC DETAILS

| Year | Degree / Board                       | Institute                             | GPA / Marks(%) |
|------|--------------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Textile Engineering        | Indian Institute of Technology, Delhi | 4.816          |
| 2013 | Central Board of Secondary Education | Ch. Devilal Memorial Public School    | 82.4%          |
| 2010 | Board of School Education Haryana    | Arya Senior Secondary School          | 90%            |

## SCHOLASTIC ACHIEVEMENTS

- **National Talent Search Examination:** Qualified in Level-1 and got selected for Nationals (2008)
- **Certificate of Outstanding Performance:** Received Certificate for securing position among **0.1 percentile** of appeared candidates in Board of School Education Haryana in 8th Board (2008)
- **Certificate of Appreciation:** Awarded by **Sub-divisional Administration** for Academics Performance (2008)
- **Winner, General Knowledge Quiz:** - Secured **1st position** among **450 teams** in **District Level** GK Quiz organised by District Council for Child Welfare of District Jind, Haryana (2008)

## INTERNSHIPS

- **UNICEF-SRISTI, Ahmedabad:** *Inclusive Innovation* (June, 2015)
  - worked on Grassroots Innovation, Product Design, Artefactual, Analogic/Biomimicry, Heuristic and Gestalt model of Learning, 3D Printing and Prototyping under the supervision of **Prof. Anil K. Gupta, IIM Ahmedabad**

## PROJECTS

- **Data Science Projects** (July, 2014 - Dec, 2017)
    - **Net4U:** Employed design thinking to develop and validate solutions after surveying 25+ people to appraise net usage
    - **Economic Review of Informal Sector:** Designed a survey to assess impact of government economic schemes
    - **Analysis of Indian Economics:** Conducted sector-wise study of GDP, Labor and capital growth rate for 2004 - 2013
    - **Macroeconomic Study:** Assayed globalisation's impact on India and producer mindset in Flipkart's Big billion Sale
    - **Organisational Behaviour:** Examined formation of cohesive groups in student bodies with a focus on productivity
  - **Taxi Aggregator Service:** Designed the software structure required to support taxi services like OLA, Uber etc.
- Supervisor:** Prof. Amitabh Bagchi (Oct, 2016 - Nov, 2016) : Queries such as waiting time for customer, total time, cost, location shortest paths by Implementing **Dijkstra's Algorithm** to get the closest location of taxi available for customers.

## TECHNICAL SKILLS

- C++, Java, MS Visual Studio, Eclipse, Netbeans IDE, MATLAB, Autocad, ANSYS, Solidworks

## EXTRA CURRICULAR ACTIVITIES

- **Hindi Samiti:**
  - **Winner, Anuvaad :** Secured **First** Position for consecutively **3 times** among **250+ participants** (2015 to 2017)
  - **Runner-Up, Anuvaad :** Secured **Second** Position for consecutively **3 times** among **250+ participants** (2014 & 2018)
  - **Winner, RENDEZVOUS:** Secured **First** Position for **2 years** in **Shabdvyuh** among **500+ Participants** (2016 & 2017)
  - **Runner-Up, Shabdvyuh :** Secured **Second** Position among **250+ participants** (2014-15)
  - **Winner, Chakravyuh :** Secured **First** Position among **250+ participants** (2017-18)
  - **Runner-Up, Chakravyuh :** Secured **Second** Position among **250+ participants** (2016-17)
  - **Quiz Master, Sahityik Prashnotri:** Selected as the Quiz Master of **Hindi Literature** event of Hindi Samiti (2016-17)
- **Literary Club:**
  - **Winner, Sopan :** Secured **First** Position among **250+ participants** (2014-15)
  - **Runner-Up, Sopan :** Secured **Second** Position among **250+ participants** (2013-14)
  - **Second Runner-Up, Sopan :** Secured **Third** Position among **250+ participants** (2016-17)

## POSITIONS OF RESPONSIBILITY

- **Panel Member, Hindi Samiti, IIT Delhi:** (April, 2018 - present)
  - Nominated to 5 elite member club panel by BRCA among **850+ students** to assist newly elected team of Club in planning & executing yearlong events & it is the Highest authority for arbitration for resolution of dispute in the Club
  - Shared past year experience and presented the issues, difficulties & the way to tackle the problems
  - Changed the nature of the events by introducing new structure & contributed to best hostel trophy
  - Selected Members Shaped in various policies and suggesting the structure to be followed out in **Rendezvous'18**
  - Tasked with guiding the club secretary to successful hosting of events in Rendezvous the cultural festival of IIT Delhi.
  - Responsible for planning & Organisation of all the club activities year round & Helped in formation of Hindi Society



# ANKIT KUMAR KASWAN



## ACADEMIC DETAILS

| Year | Degree / Board  | Institute  | GPA / Marks(%)  |
|------|---|--|-----------------|
| ---  | B.Tech in Biochemical Engineering & Biotechnology<br>RBSE | Indian Institute of Technology, Delhi<br>Aastha senior secondary school,<br>Sikar, Rajasthan | 6.196<br>79.00% |
| 2013 | RBSE  | Shekhawati senior secondary school,<br>Sikar, Rajasthan                                      | 90.33%          |
| 2011 |   |  |                 |

## COURSES DONE

Linear Algebra & Diffe. Equa., Intro. To Computer Science, Calculus, Intr.to Material Sc. & Engg., Transport Phenomena, Chemical Reaction Engg I, Fluid Mechs. For Chem. Enginee, Heat Transfer For Chemical Eng, Differential Equations, High-dimensional Biology, Process Dynamics And Control, Management Of Small & Medium Scale Industrial Enterprises, Bioprocess Plant Design, Bioinformatics, Biological Waste Treatment, Energy, Ecology And Environment

## SCHOLASTIC ACHIEVEMENTS

- Received Merit Cum Means (MCM) Scholarship for 3 consecutive years in IITD (2014-2017)

## IIT DELHI THESIS

**Title:** Computer simulation of rotary biological transport models

**Supervisor:** Sunil Nath, Professor, Department of Biochemical Engineering and Biotechnology

**Description:** Co-Related the transportation phenomena across various membranes to that of molecular machines

- Developed the understanding of the energy transduction phenomena and structured it into various sub-problems
- Modelled the process by performing computer simulation on sub-problems using machine learning and **MATLAB**
- Analysed the rotary transport model and developed the mathematical model for rate of **ATP synthesis**

## PROJECTS

**Programming Projects :** Completed 4+ assignments implementing various Data Structure and Algorithms in Java :

- **Rendezvous Portal, Supervisor:- Prof. Ragesh Jaiswal** (Feb, 2017 - Mar, 2017) :

- Developed interface for handling dynamic addition/deletion of participants, events, and scores of various events
- Compared various data structures and finally used **heap of heaps** for improving time efficiency and complexity

- **Training and Placement Portal, Supervisor:- Prof. Ragesh Jaiswal** (Mar, 2017 - Apr, 2017) :

- Designed and modeled a hypothetical Training & Placement portal to allocate the most preferred jobs to students
- Implemented **Gale-Shapely** algorithm in Java using Hash maps to successfully improve efficiency of the system

**Machine learning, Supervisor :-Prof. Parag Singla :** Completed 6+ assignments implementing various ML Algorithms:

- **Housing Prices Predictor** : Performed Linear Regression for prediction of housing prices

- Implemented Linear Regression to predict prices of house considering multiple features such as size and rooms
- Performed Gradient Descent to predict the ideal price by constructing a hypothesis function using historical data

- **Student Admission Classifier** : Implemented logistic regression to build a student admission model

- Implemented **logistic regression** to predict whether a student gets admitted into a particular university or not
- Built a classification model to estimate the probability of admission of the applicant based on historical data

- **Image Compressor**: Implemented K-means clustering algorithms for image compression

- Applied **K-mean Clustering** algorithm for identifying a cluster of similar colour for performing image compression
- The algorithm identified and removed the less frequent colours and used PCA to reduce facial image dimensions

- **Hand Written Digit Recognition** : Implemented back-propagation algorithm for neural networks

- Implemented back-propagation algorithm to compute gradient of nn cost function for hand-written digit recognition
- Included features like gradient checking, randomizing initial weights and adding regularisation to the gradient

## TECHNICAL SKILLS

- **Programming Languages:** JAVA, Python, SQL, HTML, CSS, JavaScript

- **Software's:** MAT LAB, Net beans, Eclipse, Microsoft Office, Auto CAD, UIPATH, Adobe Photoshop

## EXTRA CURRICULAR ACTIVITIES

- **Aeromodelling:** Designed a wooden model in aeromodelling workshop organised by **Boeing** (2014)

- **Indian Road Safety Internship :** Interned at solve conducted by Indian road safety campaign

- Used Adobe Photoshop to edit video pertaining to traffic was recognized as a diligent worker and enthusiast

- Participated in **Art from Junk**, workshop conducted by Design innovation centre & office of dean infrastructure IIT Delhi



# ASHIM GARG



## ACADEMIC DETAILS

| Year | Degree / Board  | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech and M.Tech in Biochemical Engg & Biotechnology | Indian Institute of Technology, Delhi | 7.222          |
| 2014 | CBSE  | Sanskriti School, Delhi               | 94.80          |
| 2012 | CBSE  | Sanskriti School, Delhi               | 9.6/10         |

## SCHOLASTIC ACHIEVEMENTS

- International Publication:** Garg, A. et al. 'The Chai-Guevara Report - A Brand Management Case Report', IJM, **IF = 8.19** (2018)
- MHRD Scholarship:** Secured **AIR 145**, GATE, awarded postgraduate teaching assistantship and scholarship by GoI (2018)
- Six Sigma Certification:** Awarded by Aveta Business Institute for displaying curriculum proficiency & excellence (2018)
- Research Study:** 'Discovery of vaccine against Alphaviruses', secured **Recommendation Letter** by Dr. M. Banerjee (2017)
- Academic Excellence:** Awarded AWES scholarship by **Indian Army** and Shresth & Daksh Puraskar by Sanskriti School (2010-14)

## INTERNSHIPS

- Ernst & Young LLP, Noida** (May'18 - Jul'18): *Defence and Aerospace Team under the Tax Advisory Services*
  - Recommended prospective clients by evaluating products of **200+ companies** in the supply chain of BrahMos Aerospace
  - Evaluated MSME market potential in India by building a segment based conglomerate of **650+** defence sector companies
  - In-depth analysis of **40+ National & International JVs** to examine KSFs & track key milestones within the defence space
- Received Letter of Recommendation from Director for inquisitive approach & analytical competence towards consulting**
- Centre National de la Recherche Scientifique (CNRS)** (May'17 - Jul'17): *Largest Science Agency in Europe*
  - Sequenced yeast DNA with a novel tech for **World's first** ever study on chromosome replication using nanopore sequencing
  - Supplied data sets for Oxford Nanopore's deep learning algorithm by preparing high MW genomic **DNA libraries of 100kb/mol**
- University College London** (May'16 - Jul'16): *Institute of Ophthalmology, Cell and Molecular Biology Division*
  - Set up an Ussing Chamber for a translational medicinal approach to develop understanding of AMD, leading cause of blindness
- Received Letters of Recommendation from both UCL & CNRS** for undertaking initiatives & exceeding work expectations

## POSITIONS OF RESPONSIBILITY

- General Secretary, BSA** (Apr'17 - Mar'18): *Elected by 166 to manage all dimensions of sports*  
**Awarded 'Best General Secretary'** by the Director for outstanding contribution; **A first in IIT Delhi's history** for a BSA Gsec
  - Contingent Leader:** IITD's flagbearer for **150+** students at Inter IIT; Planned and managed a budget of **INR 1.2 Crores**
  - Achieved BSA's historic medal haul, highest across all **23 IITs** in 2017-18: **45 trophies & 450+ medals** in 10+ tournaments
  - Launched an unprecedented **10+ sports design projects** to initiate sports technology and innovation culture at IIT Delhi
  - Initiated professional physiotherapy & sports counselling with SCS; Pioneered Kabaddi, Triathlon & **alumni sports meet**
  - Secured deals with **Adidas & IndiGo** for cost effective tracksuits & flights; Collaborated with BHM for Inter-Hostel jerseys
- Overall Coordinator, Sportech** (Nov'16 - Mar'18): *Selected as OC for 2 consecutive years*
  - Led a team of **200+ organisers** to manage all spheres of the festival; Invited Alumni teams in 9 sports to foster better network
  - Introduced LIVE scoring & professional workshops in **10+ sports** like **Baseball, Rugby** to aid inclusivity across campus
- Captain, Institute Football Team** (Apr'17 - Mar'18): *Led a team of 16 to win 1 Gold & 1 Bronze*
  - Negotiated extra coach from BBFS to create a reserve squad; Instituted **women's football**, conducted 1st Inter Hostel
  - Re-structured the training and Summer Camp to focus on freshers, 9 of whom got inducted into the Inter-IIT team of 16

## EXTRA CURRICULAR ACTIVITIES

- Sports:** Secured **14 podium finishes** in 4 sports; Contingent member of **Inter-IIT for 3 successive years**  
**National Level:** Represented IITD in **15+ National Tournaments**, winning **3 Gold, 2 Silver & 2 Bronze medals**
  - Winner, **Gold**, Football, Sportech, IIT Delhi; Winner, **Silver**, Football, Sportech Inter-IIT, IITD (2018,16)
  - Winner, **Gold**, Tennis, Sportech, IIT Delhi; Winner, **Bronze**, Football, Udghosh, IIT Kanpur (2015,17)
  - Winner, **Gold**, Futsal, Sportech, IIT Delhi; Winner, **Bronze**, Football, Sportech, IIT Delhi (2015)
  - Winner, **Silver**, Football, Triquetra, NSIT; **AP State Level Tennis**: 2 times Quarter-finalist (2017,05)
- Institute Level:** Instrumental in winning 5th consecutive General Championship for Kumaon (2015)
- Winner, **3 Bronze medals** in successive years leading as **Tennis Captain**, Inter-Hostel (2015-17)
- Winner, **2 Bronze medals** in consecutive years, Inter-Hostel Football Championship (2016-17)
- Winner, **Silver**, 4x400m, Athletics; Winner, **Bronze**, Water Polo, Aquatics, Inter-Hostel (2016)

**Awarded 'Institute Colours' and 'Significant Contribution to BSA'** for outstanding performance in Sports

- Welfare & Social Activities:** Impactful Contribution to multiple and diverse fields of societal well-being
  - Winner, 'BSW Trophy' for year-long work as **BSW Representative**; Unanimously elected among 70+ (2015-16)
  - Collaborated with CABI to host 4 matches of the T20 **Blind Cricket World Cup** at IITD cricket grounds (2017)

**Conferred 'Freedom of House' and 'Significant Contribution to Sports'** for cultivating the sports culture



# NEHA MEENA

## ACADEMIC DETAILS

| Year | Degree / Board  | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech and M.Tech in Biochemical Engg & Biotechnology | Indian Institute of Technology, Delhi | 6.163          |
| 2014 | Board of Secondary Education, Rajasthan               | Tiny Tots Sr. Sec School              | 81.00          |
| 2012 | Board of Secondary Education, Rajasthan               | Tiny Tots Sr. Sec School              | 84.33          |

## SCHOLASTIC ACHIEVEMENTS

- MHRD Scholarship:** Granted by Govt of India for excellent performance in GATE; selected as teaching assistant (2018)
- Online courses:** Completed Stanford certified machine learning course taught by Andrew Ng from coursera (2018)
- Gargi Puruskar & Balika Protsahan:** Awarded to meritorious girls by Board of Secondary Education, Rajasthan (2012-14)
- Certificate of Excellence:** Awarded for 3 years for exhibiting academic brilliance in school, Tiny Tots Sr Sec School (2010-13)

## INTERNSHIPS

- Alethe Labs, Gurgaon** (May'18 - July'18): *Big Data Analyst*
  - In-depth research and analysis on Jsoup, Apache Nutch and Crawler 4J to select the best fit for an automated spider
  - Built a web spider using **Java libraries**; auto detects & captures required data by using **Machine Learning algorithms**
  - Increased the efficiency of **D2RM** product by several folds by eradicating the need to design site and data specific crawler

*Received Letter of Recommendation from Head; designed a much advanced spider than available to extract business insights*
- Credihealth Ltd, Gurgaon** (May'17 - July'17): *Business Analyst*
  - Developed an outsourcing model for database management system, released **0.4 FTE**, increased efficiency by **40%**
  - Generated **statistical management reports** analyzing inflow - outflow of company data to discern **procedural efficiency**
  - Performed competitive benchmarking analysis on **40+** Key Market Stakeholders; identified **global leading practices & KPI**

*Received Letter of Recommendation from Founder and Managing Director for valuable and constructive contribution*

## EXTRA CURRICULAR ACTIVITIES

- Athletics:** Secured **20+** medals & **2 records** in 9 national tournaments; **Inter IIT contingent** member for **3** successive years  
National Level: Honoured prestigious **Institute colours** by President BSA for unwavering performance throughout the year  
**Inter IIT Meet Records:** **Gold** 4x400m, set new record by 6 sec; **Gold** 4x400m, shattered previous record by 5 sec (2016-17)
  - Winner, **Gold** 100m, SporTech; **Silver**, 4x100m, SporTech; **Silver**, 4x400m, SporTech (2018)
  - Winner, **Gold** 4x400m, Sangram; **Silver** 4x100m, Sangram ; **Bronze** 100m, Sangram (2018)
  - Winner, **Gold** 4x400m, SporTech; **Silver** 1500m, SporTech; **Bronze** 4x400m, SporTech (2016-17)
  - Winner, **Gold** 4x100m, BOSM; **Bronze** 4x100m, **Inter IIT** Sports Meet (IIT Madras) (2015-17)
  - Winner, **Gold** 4x400m, BOSM; **Bronze** 800m, Spardha; **Bronze** 4x100m, Spardha (2015-16)

Institute Level: Winner, **Inter-Hostel BSA General Championship**, competing against other hostel across **8 sports** (2017)
 
  - Winner, **Gold** 800m; **Gold** 1500m; **Gold** 4x100m Inter Hostel Sports Meet (2014-15)
  - Winner, **Silver** 400m; **Silver** 800m; **Bronze** 400m Inter Hostel Sports Meet (2014-16)

*Awarded Cumulative Contribution to BSA & Outstanding Contribution to Sports in recognition of exemplary work done*

- Dramatics:** Directed, Scripted and Acted in **13** Professional and Institute Level Performances over the span of **4** years  
Professional Level: Member of **Ankahi Theatre Society**, a student initiated theatre group of IIT Delhi
  - Winner, Inter Hostel Street Play Competition, **Acted**, hostel's first victory in 6 years (2016)
  - Runner Up, Inter Hostel Street Play Competition **Directed, Playwright & Lead Actor** (2016)

*Conferred with Significant Contribution to Dramatics for unparalleled leadership and role in lifting kailash house culture*

## POSITIONS OF RESPONSIBILITY

- Institute Captain, BSA** (Mar'17 - Mar'18): Led a **10** membered team & secured **podium finish in 3/3** inter college events
  - Mentored a young team with **40%** debutants to become **Runner-up, Inter IIT Sports Meet'17**; highest podium in **7** years
  - Runner Up** SporTech; **Runner Up** Sangram; successfully led athletics team to various tournaments & podium finishes (2018)
  - Devised weekly practice sessions & evaluation feedback mechanism to foster competitive temperament within team mates
  - Structured & implemented **sports ladder**, summer Camp & Inter - Hostel **Championship** to increase fresher's participation
  - Ensured timely availability of **requisite equipment and infrastructure** by maintaining close liaison with institute authorities
- Events Coordinator, SporTech**(Dec'16 - Apr'17): Led **2** tier team of **10+** to organise **Inter-College Athletics Tournament**
  - Raised resources & managed registrations for **1500** sportspersons across **17** sports tournaments; achieved **60%** increment
  - Streamlined logistics**, infrastructure and scheduling to ensure smooth execution of **30+** events over the span of **4** days
  - Pioneered Live Coverage by collaborating with Publicity and Photography Division, streamed at IITD onAir YouTube Channel
- House Working Committee:** Addressing crucial issues of mess, maintenance, sports & cultural activities of all residents
  - Instrumental in winning the prestigious **British High Commission Shield (2016 - 17)** for the first time ever



# NISHA BHATT

## ACADEMIC DETAILS

| Year | Degree / Board  | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech and M.Tech in Biochemical Engg & Biotechnology | Indian Institute of Technology, Delhi | 7.429          |
| 2013 | AISSCE, CBSE  | Mallikarjun School                    | 92.6           |
| 2011 | AISSE, CBSE   | Mallikarjun School                    | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- MHRD Scholarship:** Secured All India Rank 225 in the GATE Examination and recipient of MHRD Scholarship(2018-19)
- Six Sigma Certification:** Awarded by **Aveta Business Institute** for displaying curriculum proficiency and excellence(2018)
- Online Courses:** Completed Stanford certified **Machine Learning** & Erasmus certified **Econometric Methods** (2018)
- LSE Asia Investment Banking Conference:** Asia's largest Student Conference on **Advisory & Financial Market**(2018)
  - One of the **400 International delegates** selected from 93 countries for the two-day Conference held at Hong Kong
- Certificate of Merit:** Awarded by CBSE for perfect score in continuous and comprehensive evaluation in AISSE (2011)
- Olympiads:** State rank 4 in **International Mathematics Olympiad** and 73 in **National Science Olympiad** (2010-2011)

## INTERNSHIPS

- GlaxoSmithKline Consumer Healthcare** (June,18 - July,18) : *Financial Analyst Intern*
  - Optimized inventory & working capital balance by **5S analysis**; Improved product competitiveness by SWOT analysis
  - Performed **P/L** analysis, **Cost & Budget** analysis & **Cash, Inventory & Receivable Management** to bring down costs
  - Analysed various control tactics like ABC, FSN, Level Setting to efficiently utilize inventory and company resources
  - Modelled & Predicted cost of raw materials, OPEX values, CAPEX values to perform efficient budgeting for FY 2018
  - Recommendations to be replicated at GSK Nabha Business Unit for minimizing the overall expenses on each line*

## PROJECTS

- Machine Learning** (April, 2018 - August, 2018) :
  - Implemented logistic regression and neural networks for automated **recognition of hand-written digits** (from 0 to 9)
  - Integrated Support Vector Machines(**SVMs**) & **Gaussian Kernel** function to build **spam classifier** with 2D datasets
- Regression Analysis of Socio-Economic data** (May, 2018 - August, 2018) :
  - Regressed past 30 years data to establish presence of time-trends and seasonality in data by **Hypothesis testing**
  - Evaluated **heteroskedasticity** and obtained relation between votes, demographics, and expenditure in US elections

## EXTRA CURRICULAR ACTIVITIES

- Volleyball** : Represented IIT Delhi in **8+** volleyball tournaments at inter - college and institute level in past 4 years
  - Winner, **Gold Medal**, Inter Hostel Volleyball; **2 Silver Medals**, Inter Hostel Volleyball and Table Tennis (2015 - 2018)
  - Winner, **Bronze Medal** at Spardha, Annual National Sports Festival of IIT BHU, competing against 20+ teams (2016)
  - Winner, **2 Silver Medals** at Sportech, Annual Sports Festival of IIT Delhi, competing against 10+ teams (2017 - 2018)
  - Represented IIT Delhi in **52nd Inter IIT Sports Meet**, IIT Madras & **Udghosh**, annual sports festival, IIT Kanpur (2017)
- Social Endeavors** : Offered voluntary services through means of activities aimed towards bringing social reforms
  - Collection Drives** : Volunteered to gather relief materials for disaster victims in collaboration with **Goonj** (2015)
  - National Association for Blind** : Facilitated college admission procedures & board exams preparations of girls (2016)
- Make in India Initiative** : Organized business competitions, interactive mentoring sessions, workshops, panel talks
  - Interactive sessions with eminent speakers like **Facebook CPO**, **Niti Aayog Chairperson**, **Ex-CEO Airtel-Vodafone**

## POSITIONS OF RESPONSIBILITY

- Coordinator, Training and Placement Cell** (April, 2017 - August, 2017) :
 

*Led 3 tier multidisciplinary team of 21 committees, 10 CTMs, 10 executives & 200+ volunteers for recruitment activities*

  - Instrumental in streamlining hiring process and managing logistics team for upcoming placement season
- Central Team Member (May, 2016 - April, 2017)** : Trained logistics team of 200+ volunteers to host 300+ companies
  - Implemented **real-time** automated slotting of 150+ firms; IIT Delhi **Ranked 1** in placements, **Outlook Express 2017**
  - Spearheaded** 40+ companies a day ensuring glitch free conduct ; Led & Pitched 500+ companies for full-time hiring
  - Awarded with 'Exceptional Contribution', 2017 & 'Significant Contribution', 2016 from Training and Placement Cell*
- Coordinator, Entrepreneurship Development Cell** (May, 2017 - May, 2018):
  - Strategized** and envisaged **creative & novel** yearlong publicity layout; Revamped structure, bolstered social outreach
  - Spearheaded **Impiego** (Job and Internship fair) with a team of 20+ executives ; recorded **100% YoY** increase in offers
  - Led a 2-tier team to oversee offline-online publicity; Strategised expansion of **Campus Ambassador Program**
  - Expedited** the process for Startup-VC connect; Organized & Delegated talk shows including speakers like **Uber CEO**
  - BECON** 2018 : Managed 2-fold responsibility; Formulated and conceptualized events to increase the total footfall



# PARAS AGRAWAL



## ACADEMIC DETAILS

| Year | Degree / Board  | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech and M.Tech in Biochemical Engg & Biotechnology | Indian Institute of Technology, Delhi | 7.584          |
| 2014 | CBSE  | Fr. Agnel School, Noida               | 89.4%          |
| 2012 | CBSE  | Fr. Agnel School, Noida               | 10/10          |

## INTERNSHIPS

- **University of New South Wales, Sydney, Australia** [May'16 - Jul'16]
  - Analysis of metagenomic data from Shark Bay (Australia) Stromatolites
    - Metagenomic stromatolite samples were collected and sequencing data was analyzed using the supercomputing facility at UNSW.
  - Data analysis of 16sRNA data for studying microbial diversity in samples from active volcano of White Island, New Zealand.
  
- **IGBMC Strasbourg, France.** [Jun'17 - Aug'17]
  - The objective was to be able to print proteins in pre-defined motifs, to eventually create patterns and specific arrangements of cells.
  - Applications include a low cost and faster alternative for diagnosis (of diseases such as cancer) as compared to traditional methods.
  - The micrometer sized text could be printed with MDCK cells on a glass coverslip using a 40 € inkjet printer.
  
- **GAIL (India) Ltd., Noida, India** [May'18 - Jul'18]
  - Studied industrial methods of converting Methane to Syngas to make a comparative study based on their economics.
  - Analyzed the R&D projects of GAIL in this area and recommended the industries in which the syngas produced could be used.

## IIT DELHI THESIS

Rules for designing CRISPR/Cas9 experiments with minimal off-target activity [Jun'18 - present]

Supervisor: Dr. Durai Sundar, DuPont Young Professor, DBEB, IIT Delhi.

• CRISPER/ Cas9 is currently the pre-eminent genetic engineering technology in world. This project centers upon developing ideas for computational tools to aid geneticists in making more precise changes to the DNA.

- Involves application of skills such as machine learning, biological data analysis and process simulations.

## PROJECTS

- **Innovating more efficient waste collection systems and improving health conditions of waste workers.** [Oct'17 - Jan'18]
  - Conducted as part of the course "Inclusive Innovation" under the guidance of Prof. Ambuj Sagar and Prof. PVM Rao.
  - Through class discussions, guest lectures and field trips we got insights about creating impact at the bottom of the pyramid (BOP).

## EXTRA CURRICULAR ACTIVITIES

- **Cultural pursuits :**
  - Active member in the dance club. Secured first position in Group Dance competition [2015]
  - Achieved distinction in guitar examination by Trinity College, London for Grade 1 and 3.
  - Active in the music club. As member of Kumaon Hostel's Western Band secured third position in Jukebox [2016].
  
- **Social Responsibility :**
  - Amongst the 34 students selected for Gurukul program (2015) of Foundation for Universal Responsibility of H.H. the Dalai Lama.
  - Member of An Initiative for National Advancement (AINA). Participated in the "Swadesh" trips to remote villages in the country. Interacted with various NGOs and officials working at grassroots level to uplift the underprivileged.

## POSITIONS OF RESPONSIBILITY

- **Overall Coordinator , Physics and Astronomy Club , IIT Delhi** [April'18 - present]
  - Student head of the club, leading the club executive team in conduction of various events related to astronomy and physics.
  - Facilitating conduction of various astronomical observation sessions and field trips.
  
- **Coordinator, AINA , IIT Delhi** [April'16 - May'17]
  - Coordinated the discussion forum "Manthan", conducting round-table discussions of 15-25 individuals ever week to enable the group to develop understanding on issues concerning us as individuals and as citizens of India.
  
- **Academic Minister, Fr. Agnel School, Noida** [May'12 - Feb'13]
  - Head of the academic wing of the school's student parliament. Conducted workshops, delivered speeches and proposed improvements in teaching methodology to enable better learning outcomes.



# ABHINAV KUMAR



## ACADEMIC DETAILS

| Year | Degree / Board   | Institute                             | GPA / Marks(%) |
|------|--|---------------------------------------|----------------|
| ---  | B.Tech in Civil Engineering and M.Tech in Structural Engineering | Indian Institute of Technology, Delhi | 8.77           |
| 2014 | CBSE   | Mothers Public School, Bhubaneswar    | 92.00          |
| 2012 | CBSE   | Delhi Public School, Bokaro           | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- **IITD Semester Merit Award:** Awarded for being in the top 7% of the institute for 2 consecutive semesters, 2016-2017
- **All India Astronomical Test "HELIODYSSY":** A student science expedition to view solar eclipses
  - Qualified for 2 consecutive years in 2007 and 2008 with **AIR 15** and **AIR 20**
  - Rewarded with an astronomical telescope for Heliodyssy 2007 and was part of the Expedition Team consisting of scientists, amateur astronomers and students to Patna to study the Total Solar Eclipse for HELIODYSSY 2008.
- **AIR - 1347, IIT:** Joint Entrance Examination, 2014
- **AIR - 263, Kishore Vaigyanik Protsahan Yojana (KVPY):** Prestigious fellowship by DST, Govt. of India, 2013-14

## INTERNSHIPS

- **IIM Lucknow, Remote (Jan, 2018 - Feb, 2018) : Data Science and Analytics**
  - Worked on **R** programming, statistics and econometrics
  - Application of Data Analytics concepts to solve business cases published by **Harvard Business School**
  - Completed a **Hotel Industry Project** using R. Analysed Pricing Strategy of Indian hotels and found the external and internal factors affecting Room Rent.
- **Delhi Metro Rail Corporation Limited (DMRC), Delhi (May, 2016 - July, 2016) :**
  - Site training and monitoring construction work at 3 different metro station sites for phase 3 of New Delhi Metro.
  - Gave suggestive inputs for construction of underground and elevated metro, tunneling, construction of roof, concourse, base slabs etc

## TECHNICAL SKILLS

- **R, Python, C, Machine Learning, Data Modeling and Visualization, Data Analysis, Matlab, MS Excel, MS Powerpoint, Autodesk, Staad Pro**

## POSITIONS OF RESPONSIBILITY

- **Overall Coordinator, Delhi State, Think India (May, 2017 - Apr, 2018) :**
  - Lead a team of **100+** people including students from different **premier institutes** across Delhi and surrounding region to organize events, monthly study circles and seminars.
  - Coordinated with coordinators of other states to raise finances and manage promotions of Think India.
  - Instituted **internal review policy** system enabling continuous monitoring and evaluation of all working teams.
- **Hospitality Coordinator, Delhi State, Think India (May, 2016 - March, 2017) :**
  - Liaised with dealers for hospitality requirements of **200+** national & international guests, organizers & participants
  - **Managed** accommodation, travel & food for **15+** guest speakers, **50+** organizers for more than **5** events.
  - Accomplished improved accountability, efficiency & **optimized workload distribution** by dividing team in **3** groups
- **Teaching Assistant, APL100 (July, 2017 - May, 2017) :**
  - **1 of 20** students selected as TAs on basis of high academic performance and excellent letter of recommendation out of **800+ B.Tech** students for **2** consecutive semesters
  - **Monitored and guided** over **60** students to ensure better and enhanced preparation level which benefited students in their understanding
  - **Conducted** doubt clarification classes
  - Prepared and evaluated course assignments and exam papers
  - **Managed** the marks and attendance of students

## EXTRA CURRICULAR ACTIVITIES

- **Campus Ambassador, Think India (Jan 16 – Mar 16)**
  - Engaged with the student community through various events on/off-campus, competitions and speaking sessions as Think India's Campus Ambassador
  - Social media marketing and talk on social issues to create buzz and grow the community within the campus



# MUSTYALA VARUN



## ACADEMIC DETAILS

| Year | Degree / Board   | Institute                             | GPA / Marks(%) |
|------|--|---------------------------------------|----------------|
| ---  | B.Tech in Civil Engineering and M.Tech in Construction<br>Engineering & Management | Indian Institute of Technology, Delhi | 7.912          |
| 2014 | AP State Board   | Narayana Sri Chaitanya Jr College     | 97.8           |
| 2012 | ICSE   | Gitanjali Senior School               | 94.7           |

## SCHOLASTIC ACHIEVEMENTS

- **Summer Undergraduate Research Award (SURA):** Conferred by Industrial R&D Unit, IIT Delhi for excellent research.(2016)
- **INSPIRE Scholarship:** Qualified for the scholarship for being in **top 1%** of the state in AP Intermediate Board Exam.(2014)
- **Centum Award:** For scoring **100% in Mathematics** on ICSE X Board Exam. (2012)
- **Advance Standing:** Selected for **Dual degree** with **Masters in Construction Management** out of 100+ students.(2017)

## PROJECTS

- **Electrical Responses in Mortar Under Various Saturation Conditions (Prof.B.Bhattacharjee)** (May,2016 - Aug,2016)
  - Found **electrical responses** in mortar to relate w/c ratio, degree of saturation and sample length.
  - This is a **non-destructive method** to find the moisture content in the mortar and provide more information about the sample.
  - Data was analyzed and plotted using **Matlab** using above technique to form **references** for various parameters.
  - Fully funded** by Industrial R&D,IITD and was awarded **Summer Undergraduate Reasearch Award(SURA)** for the same.
- **Mapping of Security cameras (Prof.A.K.Gosain)** (Jun, 2017 - Dec,2017) : *Course project*
  - Pilot project to map security cameras in Satpura, Udaigiri and Girnar hostels, using **ArcGIS** to enter the data collected.
  - Detailed report was submitted describing the **blackspots and necessary security measures** to be undertaken in the said hostels.
- **Analysis of green ratings through physical quantification (Prof.B.Bhattacharjee)**(May,2018-present):*M.Tech Thesis*
  - Features of green rating will be selected after detailed research and would be analyzed using R or Matlab or Scilab.
  - Efforts will be made to quantify the features and formulate a basis behind quantifying them.

## INTERNSHIPS

- ITC limited, Paper Specialty Division** (May, 2017 - July, 2017): *Analyst, Resources & Inventory Department*
- Analyzed **moisture patterns** in various kinds of wood that is used in making paper at the ITC paperboard factory.
  - The relationship between moisture in the wood and yield was statistically analyzed using **Minitab**.
  - Optimized the use of wood-inventory, increasing the **saving in storage by 10%** and increasing the **yield by 5%**.
  - The work was highly appreciated by manager and mentor for achieving the given deliverables*

## POSITIONS OF RESPONSIBILITY

- **Maintenance Secretary, Udaigiri Hostel** (April, 2016 - March, 2017) :
  - Undertook **major construction projects** in hostel: Common room partition, flooring of music & dance room, etc.
  - Installed Halogen lights, Swings, WiFi routers and AC in the visitor room, for convenience of hostel residents.

*Awarded the Best Maintenance Secretary Award-BHM, (2016-17), for exemplary & significant contribution.*
- **Overall Coordinator, Literati** (May, 2017 - Oct, 2017) :
 

*Led a 3-tier team of 20+ coordinators and 70+ activity heads for conducting IIT Delhi's annual college literary festival*

  - **30+ sessions**; innovative online & offline events; boosted outreach to ensure a footfall of **10000+** from over **75+ colleges**.
  - Conceptualized and organized IIT Delhi's Real World Conference, "**NegotiationTable**"(NeT) with **250+ participants**.
- **Coordinator, Technical Workshops & Startup Conclave, Tryst** (Dec,2016 - Feb,2017): *North India's biggest tech fest*
  - Successfully executed **75 national level workshops** over 3 days, with over **6000+** participants from **650 campuses**.
  - Conceptualized and executed **6 guest lectures** from various prominent personalities from the startup world.
  - Organized VC lounge with **19 top VC firms** including Sequoia, Nexus, Saif Partners and more than **150 startups**.
- **Journalist, Board for Student Publication** (Oct,2015 - Apr,2016) :
  - Covered **Rendezvous'15** in the newsletter and wrote a **sarcastic article** on the NSO hours policies and their implementation.
  - Reported several sports, cultural and academic events which were distributed to the campus community through various media.

## EXTRA CURRICULAR ACTIVITIES

- **Social Activities:**
  - Part of **Avanti fellows**; an initiative that provides educational opportunities to students from low income backgrounds.
  - Participated in **Green rallies** & walks that spread awareness about **Hepatitis B eradication**.
- Represented Hyderabad in **National Children Science Congress**: National Level Science Project Competition.(2010)
- Was awarded **Outstanding Contributions in Management** at level of Constituent Bodies of SAC,IITD. (2016-17)
- **All-round Award:** Was awarded for all round performance in academics & extracurriculars. (2012)



# SHUBHAM KASHYAP



## ACADEMIC DETAILS

| Year | Degree / Board                                       | Institute                                   | GPA / Marks(%) |
|------|--|---|----------------|
| ---  | B.Tech in Chemical Engineering                       | Indian Institute of Technology, Delhi       | 5.007          |
| 2013 | Board of High school and Intermediate Education U.P. | Lala J P SVM Inter College<br>Muzaffarnagar | 73.2%          |
| 2011 | Board of High school and Intermediate Education U.P. | D A V Inter College Muzaffarnagar           | 70.2%          |

## COURSES DONE

Engineering Mechanics, Introduction To Chemistry, Intro. To Electrical Engg., Electromagnetic Waves&qua.mec., Transport Phenomena, Material And Energy Balance, Numerical Methods In Chemical, Chemistry Of Interfaces, Microeconomics, Chemical Engg. Thermodynamics, Chemical Reaction Engg I, Fluid Mechs. For Chem. Enginee, Heat Transfer For Chemical Eng, Environmental Science, Mass Transfer I, Process Dynamics And Control, Nano-engineering Of Soft Mate., Fluid Particle Mechanics, Introduction To The Sociology Of India, Intro To Industrial Biotech., Mass Transfer li, Instrumentation And Automation, Chem. Process Tech.& Economics, Introduction To Chemistry, Intr.to Material Sc. & Engg., Chemical Reaction Engg - li, Self-organizing Dynamical Systems, Earth System Modeling, Industrial Multiphase Reactors, Membrane Science & Engineering, Moral Literacy And Moral Choices, Science, Technology And Society, Biomass Production, Intro. To Biology For Engineer, Introduction To Materials, Fundamentals Of Comp. Fluid Dy

## INTERNSHIPS

e-Course development and Program management with GodEd Tech and Xerox Joint Internship Program (May, 2016 - July, 2016):

- Developed the Course Content of "**Physics and Maths of 12th Class**" for the students of "**Government Schools from U.P. and Bihar**". Did "**10 Hours of Video Lecture**" to teach the students some "**Basic Concepts and solved the Quizzes**" Based on the Course Content. Also, Guided a team of "**15 Peoples on Canvas - Instructure**".

## EXTRA CURRICULAR ACTIVITIES

### • House Working Committee:

- Led a team of "**8 BRCA Representatives**" at "**50 events**" in the cultural fest of the hostel in 2016.
- "**Directed and Acted in a MIME**" with "**The LEADING ROLE**" in the cultural fest of the hostel in 2015.

### • National Service Scheme (NSS):

- Worked with "**The Vidya Teaching Project**" to teach the students of "**10th class**" during the Academic year 2015 to 2016.

### • Bharat Scouts and Guides:

- Participated in **The First and Third camps of Bharat Scouts and Guides**, organized in the school in the 8th class.

## TECHNICAL SKILLS

### • Programming Languages:

C, C++, java, python.

### • Softwares:

MATLAB- Simulink, Latex, Autodesk Inventor, ASPEN Plus, Microsoft Office, Excel.

## IIT DELHI THESIS

**Title:** Exploration of Novel Filtration technologies and Cost Reduction in RO water purifiers

**Supervisor:** Professor Rajesh Khanna

**Description:** Did my B.Tech project on Cost Reduction in RO water purifiers and calculated the reject water ratio and the amount of cost it can reduce in RO water purifiers.

## INDUSTRIAL TRAINING

**Process of Cement manufacturing and Quality of Cement with the Process and Quality Control Department at UltraTech Cement Ltd. Unit: Panipat Cement Works** (May, 2017 - July, 2017):

**Description:** Worked on "**The Roller Press and The Ball mill**" with India's leading Cement manufacturing Company, Did "**Chemical and Physical Tests**" for the Best Quality of Cement, Did analysis of the Components of the Cement and the Clinker by "**XRF analyser**" with the help of "**Epsilon 3 Software**" and Compared it with the analysis done by chemical methods.

## PROJECTS

**Rheology of Clay Polymer (Guided by Professor Gaurav Goel)** (Dec, 2016 - Jan, 2017) :

- Designed a "**Theoretical Toy Model**" to understand the behavior of "**The Grafted Polymers on a Clay Sheet**".
- Calculated "**The Brownian Force**" between the two Grafted Polymer Clay Sheets and "**The Inter-Particle Distance**" on a Polymer clay sheet.



# AKANKSHA PUWAR



## ACADEMIC DETAILS

| Year | Degree / Board                            | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech and M.Tech in Chemical Engineering | Indian Institute of Technology, Delhi | 8.294          |
| 2014 | AISSCE, CBSE                              | Bal Niketan Model School              | 94.60          |
| 2012 | AISSE, CBSE                               | Bhavan Vidyalaya                      | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- **Minor Degree, Business Management:** Pursuing minor specialization with **GPA 9.67**; completed 18/20 credits (2016-18)
- **International Publication:** Puwar, A. et al., 'Financial Analysis of Indian Pharma Industry', IJSR, **Impact Factor 7.3** (2018)
- **HPAIR US Conference:** 1 of 300 delegates selected from **40 countries** for 5-day conference at **Harvard University** (2018)
- **CFA Institute:** 'Young Women in Investment'; **1 of 40** candidates selected for 3-week training in financial services (2018)
- **Goldman Sachs:** 'Women Emerging in Finance'; selected for national conference based on business model simulation (2018)
- **MHRD Scholarship:** Awarded by Government of India for consistent performance in academics over **four** years (2014-18)
- **Department Award:** Awarded 'Significant Contribution to Overall Activities' by Chemical Engineering Department (2018)

## INTERNSHIPS

- **PepsiCo India Holdings, Sangrur** (May, 2018 - July, 2018) : *Supply Chain Management Division*
  - Achieved **27% reduction** in utilities and savings of **INR 50 lacs p.a.** by improving operational efficiency of nitrogen plant
  - Designed a novel dehumidifier to conserve **400 kW** heat load & **30%** feedwater in boiler using flash steam condensation

*Received Letter of Recommendation from the Plant Head; recommendation currently being implemented in the plant*
- **Nomura Research Institute, Gurgaon** (May, 2017 - July, 2017) : *Business Strategy Consulting Division*
  - Airport Infrastructure: Recommended Go-To-Market strategy by mapping client's core competencies with sectoral demand
  - Delhi Airport Metro: Prepared proposal pitch to identify & resolve **key pain points** in PPP using an end-to-end case study
  - Agri-Tech Startups: Prepared an investment pitch for Japanese VC to recommend **key investment opportunities** in India

*Awarded Pre-Placement Interview for project accomplishment; proposals successfully employed for discussion with clients*
- **National Tsing Hua University, Taiwan** (May, 2016 - July, 2016) : *Chemical Engineering Division*
  - Developed prototype of a new thermoelectric material to reutilise waste heat; awarded **Certificate of Excellence** by Dean

*Received Global Engineering Leadership Scholarship awarded to top 6% applicants globally for high academic potential*

## POSITIONS OF RESPONSIBILITY

- **Core Team Member, Rendezvous** (Apr'17 - Dec'17) : *Led a 4-tier team of 50+ coordinators and 500+ organizers*
  - Marketing & Publicity: Achieved **100%** increase in registrations by coordinating **1200+** campus ambassadors across India
  - Orchestrated a mass-publicity campaign, forging associations with **100+** organizations to conduct **50+ pre-fest events**
  - Strategy & Innovation: Designed QR-based entry system to enable **real-time counting** & seamless crowd management
  - Initiated a performing arts pronite to increase crowd inflow by **20%** & incorporated **3** new venues for better space utilization
- **Publicity Coordinator, Tryst** (Dec'16 - Mar'17): *Led a 3-tier team of 40+ to promote 100+ events and workshops*
  - Achieved increment of **40%** YOY in online outreach across 5 social media platforms; managed all official communications
  - Revamped the Inauguration Ceremony to enhance crowd engagement by including professional Tron Dance performance
- **Publicity Coordinator, Speranza** (Apr'16 - Sept'16): *Led a team of 30+ to achieve 3-fold YOY increase in reach*
  - Conceptualized & implemented the **first-ever** central portal for registrations; awarded **Significant Contribution to BSW**
- **Maintenance Secretary, Kailash Hostel** (Apr'16 - Mar'17) : *Unanimously elected by 600+ residents of the hostel*
  - Administered complete **renovation** of hostel; chaired **first-ever** Maintenance Committee for faster complaint redressal

*Led the hostel to win the prestigious BHC Shield and Runner Up Trophy, BHM for best management of hostel affairs*

## EXTRA CURRICULAR ACTIVITIES

- **Sports:** Represented Chandigarh at the 56th **National Chess Championship** organized by SGFI
  - **Winner**, Bronze Medal, National Chess Tournament (2011); **Winner**, Bronze Medal, Inter State Chess Tournament (2012)
  - **Winner**, Gold Medal, Inter Hostel Chess Tournament (2015); **Winner**, Gold Medal, Intra Hostel Chess Tournament (2014)
  - **Winner**, Bronze Medal, 1500 M, Annual Athletics Meet (2012); **Winner**, Bronze Medal, 4\*400 M, Annual Athletics Meet (2012)
- **Case Study Competitions:** Represented IIT Delhi at various PAN India multi-tiered competitions
  - **Runner Up**, National 2-tiered Case Study, IIM B; **Runner Up**, National 3-tiered Case Study by **BHEL** at NSIT (2018)
  - **Runner Up**, National 2-tiered Case Study, LBSIM; **Special Mention**, National 2-tiered Case Simulation, XIMB (2018)
  - **Finalist**, **10+** national case studies; devised strategies across sectors like marketing, analytics, operations & HR (2018)
- **Dramatics:** Director, playwright & actor of **10+ street plays** at national & institute level for 3 years
  - **Finalist**, National Street Play Competition, **Mood Indigo**, IIT Bombay as part of institute dramatics society **Ankahi** (2014)
  - **Winner**, Inter Hostel Street Play, Kailash Hostel's **1st victory in 6 years** (2015); **Runner Up**, Inter Hostel Street Play (2016)

*Awarded 'Jewel of Kailash', the highest honour bestowed for exemplary achievements at hostel and institute level (2018)*



# AKASH RANJAN



## ACADEMIC DETAILS

| Year | Degree / Board                            | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech and M.Tech in Chemical Engineering | Indian Institute of Technology, Delhi | 6.683          |
| 2013 | CBSE                                      | DAV Public School,BSEB colony         | 82.6%          |
| 2011 | CBSE                                      | DAV Public School,BSEB colony         | 9.8/10         |

## COURSES DONE

Intro. To Computer Science, Material And Energy Balance, Numerical Methods In Chemical, Chemistry Of Interfaces, Chemical Engg. Thermodynamics, Chemical Reaction Engg I, Fluid Mechs. For Chem. Enginee, Mass Transfer I, Fluid Particle Mechanics, Mass Transfer II, Introduction To Complex Fluids, Advanced Transport Phenomena

## IIT DELHI THESIS

**Title:** Effect of nanoclay on the properties of linear low density polyethylene/thermoplastic starch blend films.

**Supervisor:** Dr. Gaurav Goel

**Description:** Molecular Dynamics simulation is carried out using **GROMACS** to study the effect of nanoclay on morphology and properties of linear low-density polyethylene/thermoplastic starch (**LLDPE/TPS**) blend films.

## INTERNSHIPS

• **IOCL, Barauni (May, 2016 - July, 2016) : Simulation of fluid catalytic cracker**

- Process design calculations of various equipment used in process industry like pumps, air coolers, cooling towers, shell and tube heat exchanger and distillation column.
- Simulation of **Fluidized catalytic cracker** to understand the effect of feed temperature ,flow rate and C/O ratio on yield of products.

## PROJECTS

• **Turbulence flow through a Shell and tube heat exchanger (Dr. Paresh Chokshi) (Jan, 2016 - May, 2016) :**

- Modelled shell and tube heat exchanger using **COMSOL** to show the coupling between the **k-epsilon turbulence model** and the **heat transfer modeling interfaces**.
- Generated velocity,pressure and temperature distribution inside the exchanger and compared it with literature.

• **Extension of Martini coarse-grained force field to Polysaccharides (Dr. Gaurav Goel) (May, 2017 - July, 2017) :**

- Parametrization of polysaccharide was carried out using Martini force field by comparison to conformations sampled with an atomistic force field.
- Simulation of coarse grained polysaccharides is carried out to match properties with all atomistic simulation.

• **Production of Bioethanol (Shalini Gupta) (August, 2017 - December, 2017) :**

- Accomplished a comparative study of various Bioethanol production processes.
- Developed function & operation diagram to establish a **heat integrated PFD** for the process.
- Economics of the process as well as final cost of plant is calculated.

• **Biomass to liquid transportation fuel (Dr. Sreedevi Upadhyayula) ((Jan, 2017 - May, 2017) :**

- Accomplished a comparative study of five methods to convert biomass to liquid fuel via **FT synthesis**.
- Developed function & operation diagram to establish a heat integrated **PFD** for the process.

## SCHOLASTIC ACHIEVEMENTS

• **Amritaj Chibber Scholarship**

- One out of 120 sophomore chemical engineering student to receive this award for 2015-16 session.

## EXTRA CURRICULAR ACTIVITIES

• **NSS Volunteer, Green Warrior (September 2015-Nov 2015)**

- Worked in a team of 13 selected students to reduce food, water and energy wastage.
- Worked to implement measures like self dumping to reduce food wastage in mess, colour coding to reduce energy wastage and conducted sensitizing events in hostels to create awareness.

• **NSS Volunteer, Lakshyam (February 2016-May 2016)**

- Helped kids in a slum with their studies (English, Maths and Science).

• **NSS Volunteer, Munirka teaching project(August 2015-December 2015)**

- Helped kids in a slum with their studies and also helped them with extra-currics.

## TECHNICAL SKILLS

• **Software Packages :** GROMACS, MATLAB, Aspen Plus, ANSYS Fluent, AutoCAD, MS-Office, Latex.

• **Programming language :** Ocaml



# ANIKET SAHA



## ACADEMIC DETAILS

| Year | Degree / Board                            | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech and M.Tech in Chemical Engineering | Indian Institute of Technology, Delhi | 8.171          |
| 2014 | AISSE, (Class XII CBSE)                   | D.A.V. Public School, Kota            | 92.60          |
| 2012 | AISSE, (Class X CBSE)                     | V.K.V., Port Blair                    | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- Beacon Fellowship, Spain:** 1 among 350 candidates selected worldwide for a **strategic consulting** internship (2018)
- International Conference:** Selected as international delegate for **Asia Investment & Banking Conference**, Hong Kong (2018)
- Minor Degree, Business Management:** *Department of Management Studies, IITD*; **9.0 GPA** in 15/20 Credits (2016-18)
- Certifications:** **Six Sigma** through Aveta Business Institute; **Digital Marketing Proficiency** through EMI, Denmark (2018)
- MHRD Scholarship:** Received grant from Government of India and achieved postgraduate teaching assistantship (2018)
- International Publication:** Saha et al, '*The Chai-Guevara Report: A Brand Management Case Report*'; IJM, **IF = 8.19** (2018)
- Olympiads:** AIR 23, Nationwide Interactive Math Olympiad; **State Rank 2**, International Maths Olympiad, SOF (2008)

## INTERNSHIPS

- Nomura Research Institute, Gurgaon** (May, 2018 - July, 2018): *Automotive Industry Consulting Division*
  - Business Strategy*, Japanese Battery OEM: Developed & presented Indian options basis **global KPIs** to International office
  - Supplier Evaluation*, Japanese Auto. OEM: Shortlisted (**44/800+**) & suggested Tier 1/2 companies for client to setup ops
  - Feasibility Study*, Indian Auto. R&D: Identified **pan-Delhi** prospective dense hotspots for client to setup service stations

*Received Pre-Placement Offer for excellent overall performance & significant contribution to 3 live projects in 2 months*

- Procter & Gamble, Mandideep** (May, 2017 - Jul, 2017): *Warehouse Planning, Supply Chain Division*
  - Produced **15% increment** in logistical pickup efficiency of warehouse through **digitization** of documentation process
  - Achieved **50% increase** in capacity : demand warehouse ratios through updated material flow and pick path plans

*Received Letter of Recommendation from Division Manager for demonstrating excellent work accomplishment capabilities*

- Council on Energy, Environment & Water, Delhi** (Jun, 2016 - Jul, 2016): *Renewable Energy Division*
  - Contributed to **pan-India assessment** of 640 districts for finding out most favorable location for solar pump deployment
  - Employed **VBA & macros** for data consolidation & analysis for representation via user interactive maps using **GIS tools**

## POSITIONS OF RESPONSIBILITY

- Core Team Member, Tryst** (Sep, 2017 - Feb, 2018): **1 among 6** selected for the core organizing committee
  - Headed management of **50+** national events with outreach of **650+** colleges across India & **2x increase** in participation
  - Spearheaded **10+** national events on women empowerment, collaborating with **Stanford & Ministry of Youth Affairs**
  - Increased participation via **250% increase** in cumulative prize money & **800+** certificates distributed across all events
- Coordinator, Events, Tryst** (Oct, 2016 - Mar, 2017): **Led a 100+ team of organizers, managing 40+ events**
  - Achieved **130% YoY increase** in departmental events with conservative monetary prizes & compensatory incentives
  - Conceptualized & implemented a **15-point** pre-event checklist to ensure proactive planning & preventing emergencies

*Awarded 'Cumulative Outstanding Contribution to CAIC' for 4 consecutive years of augmenting overall quality & appeal*

- Coordinator, Creative, Rendezvous** (Apr, 2016 - Oct, 2016): **1 of only 2** chosen from 3rd year UG program
  - Led 3-tier team of **40+** organizers to optimize resources through repurposing of installations, including **1 permanent** piece
  - Achieved **60% reduction** in cost incurred through usage of alternate fest materials & bulk ordering via prior planning

## EXTRA CURRICULAR ACTIVITIES

- Business Case Competitions:** *Multiple Podium finishes at National & International Case Competitions*
  - Winner, Enactus National Competition; **International Finalist**, Enactus World Cup, **South Africa**, of 7000+ teams (2015)
  - Winner, Ola Mobility Challenge, IIT-B; **Runners-Up**, CaseMasters, National Business Case Study Comp, DTU (2018)
  - Runners-Up**, B-Plan, Ramjas College; **Runners-Up**, B-Plan Competition, Social Entrepreneurship Summit (2015-16)
- Cultural Endeavors:** *Proficiency & achievements in fields of Dramatics, Arts & Classical Performances*
  - Winner, Street Play Competition, Dramatics Club, IITD; **Runners-Up**, Split Painting Competition, Arts Club, IITD (2015)
  - Winner, Collage Making Competition, Challenge'07; **Runners-Up**, National Graffiti Competition, Tryst'15 IITD; (2007-15)
  - 1st Division with Distinction:** Sr. Diploma for **Classical Tabla**; **1st Division:** Jr. Diploma, for **Classical Vocal** (2009-11)

*Awarded 'Freedom of House' for exemplary contribution; Instrumental role in winning 1st **BHM Stall Trophy** spanning 5 years*

- Social Ventures & Enactus:** *Contributed to diverse domains of welfare through multi-project involvement*
  - Co-Founder**, Project Nirmalya, Enactus: Headed collaborations with **6 RWAs** for decentralized waste management (2016)
  - Project Executive**, Enactus: Primary role in curbing indoor air **pollution** & promoting primary **education** in Delhi (2016)
  - Mentor**, SMP: Guided **6** freshmen to ensure smooth and comfortable transition into the IIT Delhi environment (2016-17)
  - Co-formulated educational **scholarship scheme** for meritorious students with **Shri. Bishnu Pada Ray, MP, A&N** (2014)



# AYUSHI CHAUDHARY



## ACADEMIC DETAILS

| Year | Degree / Board                            | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech and M.Tech in Chemical Engineering | Indian Institute of Technology, Delhi | 7.588          |
| 2013 | CBSE                                      | Modern Sr. Sec. School Kota Raj.      | 91%            |
| 2011 | CBSE                                      | DAV Public School Kota Raj.           | 10/10          |

## INTERNSHIPS

- **Cerise Internet Technologies Pvt Ltd (Prokure)** (*May, 2018 - July, 2018*): *Business analyst intern*
  - Researched call dispositions, recordings and call centre data to increase conversions for outbound & warm transfer campaigns
  - Interacted with key customers to ensure product satisfaction, feedback and client adoption.
  - Managed email database of over 5,000 contacts and distributed weekly email blasts.
  - Analysed website and sales data to identify market and product trends.

## INDUSTRIAL TRAINING

- **Kota Super Thermal Power Station** (*May, 2017 - July, 2017*):

*Received practical training in working of coal based thermal power plant*

- Trained in boiler maintenance, coal mill operation, cooling tower operation and hazard control.
- Monitored stack gas, fly ash, bottom ash and coal quality for optimising boiler efficiency.
- Worked on process control and maintaining water quality in DM water plant.

## PROJECTS

- **Methanol as an alternative fuel** (Prof. Shalini Gupta) (*July, 2017 - Nov, 2017*) :

- Led a team of 3 and identified scalable technology for the methanol production by analysing various methods.
- Proposed a PFD and performed material and energy balance as well as designed a heat exchanger network.
- Simulated PFD and its calculations in Aspen plus software and performed a preliminary cost estimation.

- **Flow Through Porous media** (Prof. P. Chokshi) (*February, 2016 - May, 2016*) :

- Led a team of five and studied single phase flow to obtain modified Darcy's equation.
- Used modified Darcy equation to study channel, tube and radial flow.
- Coupled pore-scale networks to continuum-scale models of porous media for studying flow through porous media.
- Simulated flow of air through porous media to obtain velocity field and contours of static pressure using Fluent software.

- **NIRMALAYA** (Prof. Shantanu Roy) (*Aug, 2015 - Nov, 2015*) :

*A project to address the problem of waste management in a slum near IIT-Delhi*

- Surveyed door to door in the slum for the problem analysis.
- Designed composting pits for biodegradable waste management.
- Proposed separate dry and wet waste collection from level of household itself.
- Distributed bins to the households and carried a cleanliness drive in the area.

## IIT DELHI THESIS

**Oxalic acid removal from wastewater by electrocoagulation:** (*January 2018 -Present*)

**Supervisor:** Professor A.K. Saroha

**Description:** Ongoing project for removing oxalic acid from wastewater by using electrocoagulation and establishing optimum parameters for operation to achieve maximum contaminant removal efficiency at minimum cost and energy.

## TECHNICAL SKILLS

- Programming Languages : Java, C, Ocaml
- Software Packages : MATLAB, Latex, MS Office, Aspen.

## EXTRA CURRICULAR ACTIVITIES

- **Anchoring in Rendezvous 2015:** Anchored in LIFESTYLE prelims a fashion event organised by ROPOSO.
- **'Stalwarts' 2014 :** Represented hostel in the inter hostel debating competition.
- **Social Endeavours:**
  - **Blood Connect IIT Delhi:** Volunteered for organising blood donation camps and attended eight camps.
  - **CHILDLINE 1098: A 24hr emergency child help line service.**
    - Volunteered in child labour rescue operation and attended workshops on stop child labour.
    - Organised open house for kids in slum areas to create awareness about child rights and child labour.
    - Counselling parents of missing and runaway children and gave information about legal process.
- **Other Interests:** Reading books, running, clay art, craft work, cooking



# AYUSHI AGARWAL



## ACADEMIC DETAILS

| Year | Degree / Board                            | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech and M.Tech in Chemical Engineering | Indian Institute of Technology, Delhi | 8.448          |
| 2014 | C.B.S.E.                                  | Sardar Patel Vidyalaya, Delhi         | 96.4%          |
| 2012 | C.B.S.E.                                  | Sardar Patel Vidyalaya, Delhi         | 10             |

## SCHOLASTIC ACHIEVEMENTS

- **International Publication:** Agarwal et al., 'Process Design for Sorbitol Production' **Intl. Journal of Sc. Research** (2018)
- **IITD Semester Merit Award:** Conferred for being amongst the **top 7%** students academically in third semester (2015)
- **1-2-3-4 Design & Learn:** Sponsored by **Industrial Research & Development IITD** on Methane Reservoir Study (2018)
- **Minor Degree in Business Management:** In pursuance, completed 15 out of 20 credits required to attain degree (2018)
- **Youth Conclave:** Represented IIT Delhi at BISR, Jaipur; organised by **Indian National Academy** of Engineering (2017)
- **IVISP Scholarship:** HK\$ 20,000 grant, Hong Kong (2016); **INSPIRE Scholarship:** Ranked in **top 1%** in AISSCE (2014)
- **General Proficiency:** Academic excellence in school for **5 years**; Brij Mohan Memorial Scholarship in Chemistry (2014)

## INTERNSHIPS

- **Hindustan Unilever Limited, Mumbai Head Office** (May, 2018 - July, 2018) : *Supply Chain Management*
  - Cost benefit analysis & setup design for late varianting in shampoos across **6 brands**, payback **minimized to 2 yrs**
  - Garnered potential **annual savings of 1 Crore**; coordinated with suppliers and **4 functional teams** at different locations  
*Offered Pre-Placement Interview (PPI) for displaying standards of leadership; all proposals under implementation*
- **Kellogg Brown & Roots (KBR Inc.), Gurgaon** (May, 2017 - July, 2018) : *Refining and Processing Division*
  - Realized client's requirement of FCC plant simulation for **licensed technology** to produce gasoline & related products
  - Presented analysis of equipment sizing and design specifications of different technologies for **ongoing plant proposal**
- **Engineers India Limited, Delhi** (Nov, 2016 - Dec, 2016) : *Process Design and Development*
  - Contributed to revamp of **Bongaigaon refinery** by working on design package for client's perusal, **adjudged 'Excellent'**
- **Hong Kong University of Science and Technology** (May, 2016 - July, 2016) : *Chemical & Biomolecular Engineering*
  - Achieved **reduction in industrial cost** of dehydrogenation reactions by conducting Pt-Ni catalyst dealloying simulations  
*Received 'Letter of Recommendation' from the Professor for achievement of publishable results and high productivity*

## EXTRA CURRICULAR ACTIVITIES

- **Music:** Directed and performed across several genres in more than 10 events over four years
  - Trained in **Hindustani Classical Music** for 3 years (2008-10) | Diploma in **Bharatnatyam** with **1st Division** (2004-07)
  - Runner-Up for two consecutive years and **Lead Vocalist**, Mehfil, traditional Indian music competition (2017 and 18)
  - Second Runner-Up and **Lead Vocalist**, Ragnarock, first ever inter-year competition conducted by Music Club (2016)
  - Studio-recorded and released **1st-ever music video** 'Institute Production' by Mridang, **7500+ YouTube views** (2016)
  - Representative, Music Club : Led hostel team, conducted **9 national** events with **80+ colleges** participating (2015-16)  
*Awarded **Best Music Representative** for dedicated work; Adjudged **2nd-Best BRCA Club** for remarkable performance*
- **Technical Endeavors:** Displayed technical acumen with active participation in various events
  - Runner-Up, won **INR 20,000**, iGEM, Exhibitions, Tryst (2015) | **Campus Finalist**, TechSpark, HUL inter-IIT comp (2015)
  - Finalist, National Economic Times Stars (2018) | **Inclusive Innovation**, design for rickshaws, pitched to **MIT, US** (2017)
- **Social Endeavors:** Associated with diversified nationwide organizations to create impact
  - **Indian Road Safety Campaign:** Editor for newsletters, blog & events, supported by **Ministry of Transport** (2017-18)
  - **National Thalassemia Welfare Society:** Promoted blood donation (2017) | **Lakshyam**: Slum survey on PDS, RTE (2015)
- **Registration Coordinator:** 1st-ever **Industry Day**, 250+ delegates (2017) | **Open House**, 6000+ school students (2018)

## POSITIONS OF RESPONSIBILITY

- **Social Coordinator, Rendezvous'18** (Dec, 2017 - Oct, 2018) : *Led three-tier team of 30 members*
  - Conceptualized initiative '**Wajood**' encouraging people to embrace individuality and **break societal norms** & stereotypes
  - Achieved **2-fold increase** in outreach by partnering with NGOs & CSR wings to execute and publicize **pan-India events**
  - **Revamped** event structure with focus on integrating competitive events with youth-centric issues & social themed deco
- **Director, Mridang - Indian Music Society, Music Club, B.R.C.A.** (Apr, 2016 - Mar, 2017) : *Led team of 40 members*
  - Self-composed and led **12-member institute team** in Aagaaz, Indian classical group song competition, Rendezvous
  - Conducted weekly music sessions for performance by society in 10+ events, **inculcating music culture** in the institute
  - Directed and led vocals for performance at the **Inaugural Ceremony** of Rendezvous, witnessed by a **jam-packed OAT**
- **Social Coordinator, Tryst'18, C.A.I.C.** (Nov, 2017 - Feb, 2018) : *Led three-tier team of 10 members*
  - Conceptualized campaign '**Sashakt**' on **Women Empowerment**; collaborated with **Delhi Commission for Women**
  - Pioneered **1st-ever** Women in Data Science forum with **10+ speakers** in conjunction with **Stanford University, ICME**



# KASHISH JALAN



## ACADEMIC DETAILS

| Year | Degree / Board                            | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech and M.Tech in Chemical Engineering | Indian Institute of Technology, Delhi | 7.259          |
| 2014 | AISSCE (Class XII CBSE)                   | Paramount Academy, Muzaffarpur        | 86.8           |
| 2012 | AISSE (Class X CBSE)                      | Paramount Academy, Muzaffarpur        | 9.2            |

## SCHOLASTIC ACHIEVEMENTS

- **Beacon Fellowship, Spain:** 1 out of 350 candidates selected worldwide for a Strategic Consulting Internship (2018)
- **Minor Area Specialisation:** Department of Management Studies, IITD in finance & marketing with **8.5 GPA** (2016-18)
- **Asia Investment & Banking Conference, LSE:** Selected as **international delegate** for conference in Hong Kong (2018)
- **Six Sigma Certification:** Awarded by Aveta Business Institute for achieving proficiency in **process optimisation** (2018)
- **International Publication:** Jalan et al. *The Chai-Guevara Report- A Brand Management Case Report*; IJM, IF = **8.19** (2018)
- **Digital Marketing Certification:** E-Commerce & Online Marketing Certification received from **EMI, Denmark** (2018)
- **Olympiads:** Secured **Rank 8** in National Cyber Olympiad (2006); **Rank 5** in National Science Olympiad, SOF (2007)

## INTERNSHIPS

- **GlaxoSmithKline Consumer HealthCare** (May'17- Jul'17): *Quality Check Department*
  - Conceptualised technique for **63% reduction** in protein coagulation & approved implementation in future consumer products
  - **Improved technical feasibility** of proteins by **42%** by streamlining quality check procedure using DI Amino Acid Scoring
  - Spearheaded projects on protein quality estimation & **thermal performance improvement** for multiple end GSK products
- Received **Letter of Recommendation** for stellar professional performance leading to significant tangible business impacts
- **Sun Pharmaceutical Industries Ltd.** (May'18 - Jul'18): *Technology Development*
  - Achieved **54% reduction** in purification time of API by updating existing techniques and optimising critical parameters
  - Implemented **47% efficiency** improvement by introducing heterogeneous purification using linear regressions in MATLAB
  - Employed **SAS**, Data Analytics Software Package, for increment quantification of pharmaceutical drug purity and quality

## POSITIONS OF RESPONSIBILITY

- **Training and Placement Cell, IIT Delhi** (Apr'15 - Present): *Active member of the committee for 4 consecutive years*
  - Overall Coordinator** (Apr'18 - Present): *Leading a 4-tier team of 21 committes, 48 coordinators & 250+ volunteers*
    - Instrumental in the **comprehensive revamping** of online T&P domain to current standards on the basis of alumni feedback
    - Spearheaded pitching team leading to a **200% increment** in first-time recruiters for Phase 1 summer internship process
    - Reformulated Training and Placement policies to **maximise logistical benefits** for all the stakeholders in the process
  - Coordinator & Core Team Member** (Apr'16 - Mar'18): *Led a 3-tier team of 200+ members to host 400+ firms*
    - Achieved highest ever 250+ volunteer participation hosting 550+ job profiles by implementing in-campus marketing policies
    - Accomplished all-time best of **140+ job offers** on first day; IIT Delhi **Ranked #1** in placements by Outlook Express'16 & '17
    - Initiated **foreign university internships** via MOUs signed by IITD, in collaboration with international affairs department
  - Conferred with **3 Awards: 'Outstanding', 'Exceptional' and 'Significant Contribution'** by the Training & Placement Cell, IITD
- **Coordinator, Creative, Literati, IIT Delhi** (Jul'16 - Sep'16): *Led a 3-tier team of 40+ student volunteers*
  - Efficiently managed budget of INR 35k, a **30% reduction** compared to last year by pioneering use of repurposed materials
  - Ensured **on-time result delivery** by proactive timeline planning to avoid last minute hassles, maintaining fest standards

## EXTRA CURRICULAR ACTIVITIES

- **Business Endeavors:** *Finalist in 10+ National business competitions conducted by top Indian colleges*
  - **Winner**, Enigma: inter-college case study competition organised by Economics Society, CVS college, DU (2018)
  - **Winner**, Ecolibrium: **pan-Delhi** case contest on 'Developing Economies' by Economics Club, PGDAV, DU (2018)
  - **Runner Up**, Markit: multi-tier case study competition contested by **70+** teams organised by IIM Bodh Gaya (2018)
  - **Runner Up**, Leagile: inter-college case study competition organised by Operations Club at LBSIM, Delhi (2018)
  - **Finalist**, MarX: Marketing Case Comp, IIM Nagpur (2018); **Finalist**, Consilium: Analytics Case Comp, NSIT (2018)
- **Cultural Endeavours:** *Diligent participation in multi-club cultural activities spanning over 4 years*
  - **Institute Dance Production:** Participated & performed in concoction, largest dance event held annually at IIT Delhi (2015)
  - **Runner Up:** Annual Inter-Hostel Split Painting Competition, FACC, amongst **20+** inter-hostel participating teams (2015)
  - **Secretary, Creative, Hostel Affairs:** Multiple event organisation with cross-club coordination on a thrifty budget of INR 30k
- Awarded **Significant Contribution** to Fine Arts and Crafts Club, IIT Delhi for enthusiastic contribution towards the community
- **Social Endeavours & Mentorship:** *Offered voluntary services aimed towards bringing social reforms*
  - **Mentor, Avanti Fellows:** Active involvement through regular secondary school visits providing student guidance (2015-16)
  - **Volunteer, National Association for Blind:** Provided teaching assistance to visually impaired resident women (2015-16)
- Received **Letter of Recommendation** from Minister of State for Agriculture for ardent participation in a nation-wide green drive



# NILADRI SEKHAR MANDAL



## ACADEMIC DETAILS

| Year | Degree / Board                            | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech and M.Tech in Chemical Engineering | Indian Institute of Technology, Delhi | 8.391          |
| 2014 | CISCE(ISC)                                | The Assembly of God Church School     | 93%            |
| 2012 | CISCE(ICSE)                               | The Assembly of God Church School     | 92.4%          |

## SCHOLASTIC ACHIEVEMENTS

- **MHRD Scholarship:** Accredited with **research fellowship** by Government of India for excellence in academics (2018)
- **Teaching Assistant:** Selected for course *Numerical Methods in Chem. Engg.*, tutoring and advising 120 students (2018)
- **Summer Undergraduate Research Award:** Conferred for summer research project, fully funded by IRD, IIT Delhi (2016)
- **Department Rank 5:** Among all "*Chemical Engineering Dual Degree*" students at the end of the eighth semester
- **Petrotech Youth Forum:** Selected among **200** students across India for excellent understanding of chemical engineering (2016)
- **Management Courses:** Obtained "**A**" grade in "Macroeconomic Env. of Business" and "Org. and People Management"
- **International Olympiad of Mathematics:** Secured a state of rank **32** (2009) and a state rank of **66** (2010) in successive years

## INTERNSHIPS

- **Hindustan Unilever Ltd., Mumbai** (May, 2017 - July, 2017) : *Global Design Center, Laundry*
  - Conducted feasibility studies on a new variant of powder using reduced filler, with a scope to save **1M €/annum**
  - Carried out optimization on raw powder, to save **100,000 €/annum** by experimentation on two critical design parameters
  - Boosted performance within a target cost frame by analyzing **consumer insights** to choose appropriate shading dyes  
*Increased gross margin significantly, by optimizing the dosage of ARD polymers by estimating threshold requirements*
- **Complex Fluid Lab, IIT Delhi** (May, 2018 - July, 2018) : *Consultancy project for Passavant Energy and Environment*
  - CFD analysis carried out on an industrial scale biogas production unit, affecting a total fluid volume of **1M** cubic meters
  - Obtained results on flow patterns and dead zones by improvising the geometry to solve problem of varying length scales  
*Received Letter of Recommendation from supervisor for commendable work done on modelling fulfilling industry requirements*

## EXTRA CURRICULAR ACTIVITIES

- **Social Endeavours:** Worked on *social innovation, waste management and mentorship* for four years at IIT Delhi
  - **Winner**, Convergence, for developing a sustainable and innovative waste paper recycling model, organized by NSS SRCC (2017)
  - **Maruti Suzuki Road Safety Award: Winners** across India, awarded for outstanding contribution in *road safety* (2015)
  - Participated in the **Accessible India campaign** organised by the Ministry of Social Justice and Empowerment (2016)
  - Conducted a **Nature Walk** to Sanjay Van, for sensitizing the student community towards the environment (2016)
  - **Case Study Internship**, Anveshan: Worked on a project aimed at understanding "*The Condition of Elderly in our Society*" (Dec, 2014)  
Identified key problems and conceptualized technical solutions and policy changes to improve the life of the elderly
  - **Mentorship Program:** Mentor for **7** freshmen to ensure a smooth, comfortable and stressless transition into IIT Delhi (2017)
  - **Excellent Mentor Award:** Awarded to recognise *impactful and sincere* efforts put into the process of mentorship (2017)
- **Institute Level Sports:** *Representing hostel in chess for the last 3 years*
  - **Winner**, Inter-Hostel Chess Tournament, the highest order of chess tournament in the institute, played by 13 hostels (2015-16)
  - **2nd Runner-Up**, Inter-Hostel Chess Tournament, secured a podium finish in for **two consecutive** years among 13 hostels (2016-17)
- **Debating and Journal Publishing:** *Have been an active debater and a prolific writer in IIT Delhi*
  - **Winner**, Inter-Hostel Debating Club Trophy, played important role in securing points in significant club events (2015)
  - **Winning House** Inter Hostel Biathlon, outstanding performance in tournament consisting of extempore and turncoat (2015)
  - **Published** online magazine on social cause for NSS IIT Delhi (2017) and for Chemical Engineering Society, IIT Delhi (2015)

## POSITIONS OF RESPONSIBILITY

- **Coordinator, Student Mentorship Committee, BSW** (April, 2017 - September, 2017) :
  - Coordinated a **4-tier** team consisting of **150+** mentors for providing student based mentorship to **850+** freshmen of IITD
  - Designed a rigorous **3-stage** selection process to select 173 mentors, and one candidate for Mentorship Secretary
  - Started an initiative involving professional training of mentors for improving the standards of mentorship within IITD
  - Launched novel initiatives like language and academic mentorship to achieve greater parity among the IITD community
- **Secretary, National Service Scheme, IIT Delhi** (April, 2016 - March, 2017) :
  - **Pioneered and implemented** a project aimed at developing a *sustainable model* for waste paper management on campus
  - **Collaborated** with an external organization, **Designers for Tomorrow** to organize a Design Thinking Bootcamp on HCD
  - Led a team working on technical innovation for various social causes which worked on the principle of human-centric design
- **Executive, National Service Scheme, IIT Delhi** (April, 2015 - March, 2016) :
  - Conceptualized a competition on road safety "Watch the Road", in collaboration with **TRIPP IITD and Tryst IITD, 2015**
  - Conceived a social innovation meetup for 20+ participants, aimed at solving problems of visually challenged people



# SUMIT



## ACADEMIC DETAILS

| Year | Degree / Board                            | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech and M.Tech in Chemical Engineering | Indian Institute of Technology, Delhi | 5.928          |
| 2013 | C.B.S.E.                                  | R.E.D. Sr. Sec. School                | 89%            |
| 2011 | C.B.S.E.                                  | R.E.D. Sr. Sec. School                | 10/10          |

## COURSES DONE

Intro. To Computer Science, Profe. Ethics & Social Resp., Introduction To Engineering, NSS, Agrarian India: Past And Present, Marketing Management, Rural Energy Systems, Air Pollution Control Engg.

## QUALIFYING EXAMS

- **Joint Entrance Examination (JEE) Advanced Rank:** 7339 (GE)
- **Graduate Aptitude Test in Engineering (GATE) Rank:** 2661

## SCHOLASTIC ACHIEVEMENTS

- **MHRD Scholarship:** Receiving MHRD scholarship for postgraduation
- **INSPIRE Camp:** Selected in DST INSPIRE camp for being meritorious at state level

## INTERNSHIPS

- **Jaypee Cement, Rewa Plant** (May, 2016 - July, 2016) : *Production and Quality Control*
  - Applied thermodynamics, **Mass and Energy Balance** on the plant for Rotatory Kiln, air-preheater and cooler.
  - Computed the species flow inside and outside each unit, inculcated auxiliary power requirement for the kiln in calculations and developed an algorithm to calculate boiler efficiency.
  - Verified the calculation using **MATLAB**. Developed flowchart that will be used to develop a software tool for simulation of power plant.

## PROJECTS

- **Indian Agricultural Market Research (Richa Kumar)** (February, 2017 - May, 2017) :
  - Researched on the middlemen driven model of Indian agri market
  - Proposed a novel tech enabled solution for optimizing supply chain
- **Simulation of IFP in Cancer tumours (A. N. Bhaskarwar)** (January, 2018 - May, 2018) :
  - Made a mathematical model of IFP and fluid flow in cancer tumours
  - Verified the literature results using simulated model of cancer tumours
- **Video editing project (Richa Kumar)** (May, 2017 - November, 2017) :
  - Edited footage of a self help group named Sangtin working on social cause
  - Managed their youtube channel

## TECHNICAL SKILLS

- **Programming Languages :** HTML, OCaml, Python, C++
- **Softwares :** AutoCAD, ASPEN, MATLAB, ANSYS Fluent, MS Office

## EXTRA CURRICULAR ACTIVITIES

- **Startup enthusiast:** Worked closely with multiple IIT-D start ups
- **Yoga practitioner:** Active yoga practitioner

## POSITIONS OF RESPONSIBILITY

- **Project Executive, Enactus-IIT Delhi** (Jan 2016- August 2016) :
  - Team member for Arth, Enactus IIT Delhi
  - First Runner-Up, Member of the Enactus, IIT Delhi team that participated in Enactus Nationals, 2016 held in Mumbai.
  - Created network of organic market stakeholders
  - Established pilot biscuit supply chain
- **Events Executive, eDC, IIT Delhi** (July, 2015 - June, 2016) :
  - Organised E Summit, hosting many dignitaries, multiple workshops and competition across three days
  - Successfully Organised Startup Weekend held first time in India by Google for Entrepreneurs
  - Coordinated with a team to partner with leading media houses and raise sponsorship for Startup Showcase



# UDIT S BEHL



## ACADEMIC DETAILS

| Year | Degree / Board                            | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech and M.Tech in Chemical Engineering | Indian Institute of Technology, Delhi | 6.369          |
| 2014 | CBSE                                      | Delhi Public School,Faridabad         | 88.4%          |
| 2012 | CBSE                                      | Delhi Public School,Faridabad         | 9.6            |

## SCHOLASTIC ACHIEVEMENTS

- Received **MHRD Scholarship, Govt. of India** for pursuing post-graduate research, 2018; Teaching Assistant: Transport Phenomena
- Secured AIR 1891(GE) in **JEE(Advanced)**: AIR 622 IN **GATE**(Graduate Aptitude Test in Engineering)
- Conferred certificate of Merit for distinction in **Australian National Chemistry Quiz** for 2 consecutive years
- PSA'2013**:Awarded certificate for securing percentile 97 in Language and 95 in Qualitative Assessment organized by **CBSE**
- Certificate of Merit**: Awarded **5 consecutive years** for academic excellence, Delhi Public School,Faridabad

## IIT DELHI THESIS

**Title:** Electrochemical Reduction of Carbon Dioxide into Value-Added Products

**Supervisor:** Dr.Anil Verma(Chemical Engg. Department,IIT Delhi)

**Description:**Objective to use ambient conditions and make appropriate changes so as to get feasible reaction with considerable conversion

- Carrying out simulation on electrochemical reduction of CO<sub>2</sub> using **COMSOL/Ansys** to determine the optimum parameters
- Designing and modification of the conventional electrochemical reactor to increase the Faradaic Efficiency
- Carrying out **DFT Simulation** for developing the reaction mechanism of ERC on Zn/Cu complex and do comparative analysis

## INTERNSHIPS

- Rashtriya Chemicals and Fertilizers,Mumbai (May, 2017 - July, 2017)** : *Designed Absorption Tower for CO<sub>2</sub> Capturing*
  - Calculated amount of carbon dioxide in flue gas by using the principle of mass transport, also compared it with **chromatography** results
  - Designed a method and suitable solvent for separation of carbon dioxide from flue gas based on extensive literary review
  - Scrutinized the efficiency and feasibility of process by preparing a preliminary **PFD** of absorption tower using **Aspen simulations**
- International Tobacco Company, Ghaziabad (May, 2016 - July, 2016)**: *Industrial training at a division of Godfrey Phillips,India*
  - Analyzed raw and finished materials for conformance to specifications and ensuring that a **six sigma quality** target is achieved
  - Shadowed employees including technicians,operators, and engineers to gain insight of operations involved from processing to packaging

## PROJECTS

- Advanced Visualizations,Python For Data Science(Udemy) (May, 2018 - August, 2018)** :
  - Created Histograms to generate demographic analysis of death rate and fertility data using **Seaborn Library**
  - Using NBA data for 2010-2016 created various performance analysis charts of Top 10 Players for multiple parameters
- Heat Transfer in a bioreactor for *Pichia Pastoris* fermentation-Design(Bioprocesses) (Mar, 2017 -Apr, 2017)**:
  - Compared various setups used and gave concept of proof for using **Spiral Exchanger with Feedforward** control scheme
  - Examined various fluctuations that could disrupt the system and proposed techniques to tackle them effectively
- Convenience Rice Production(Chemical Process Technology and Economics) (Mar, 2017 - May, 2017)**:
  - Gained insights about effect of washing, soaking & cooking on the physical & sensory attributes of cooked rice
  - Designed full-scale **Process Flow Diagram (PFD)** using decisions taken for post and pre-cooking techniques

## EXTRA CURRICULAR ACTIVITIES

- Diplomathon 2017 (July, 2017 - Aug, 2017)**:Asia's Largest diplomacy conference on International Relations
  - Conducted Informative sessions in various Schools of North India on value of International Relations
  - Acted as **Delegate Relation Officer** and also a mediator between contingents and organizers
- UTHAAN,Gurgaon (Dec, 2016-Jan, 2017)**:Volunteered for a month in a Gurgaon based NGO as part of a social initiative
  - Conceptualized and created information poster highlighting **POSH (Prevention of sexual harassment )** for all offices
  - Participated in **GREEN GURGAON** campaign with corporate groups and Cleaning drive at Govt Deaf & Dumb School
- Team Member(Food and Hospitality), Open House 2018 (March, 2018 - April, 2018)** :IIT's Annual Technical Fest
  - Guided and welcomed people and students to various department to learn about the research going on in the institute
  - Part of the core team that Managed the food distribution(breakfast and lunch) for hundreds of participants and volunteers
- Activity Head, Hospitality,Rendezvous (May, 2016- Nov, 2016)**-Annual Cultural Fest of IIT,Delhi
  - As a part of the hospitality team, took care of the transportationof various judges and participants coming from all over the country
  - Was responsible for bringing **5 E-rickshaws** to run in the campus(free of cost) as a mean of transport

## TECHNICAL SKILLS

- Data Analytics**:Python, SQL Softwares: COMSOL , MATLAB , ASPEN Plus , LaTeX , ANSYS



# UTKARSH SINHA



## ACADEMIC DETAILS

| Year | Degree / Board                            | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech and M.Tech in Chemical Engineering | Indian Institute of Technology, Delhi | 9.07           |
| 2014 | AISSCE, CBSE                              | Delhi Public School, Patna            | 96.4%          |
| 2012 | AISSE, CBSE                               | Delhi Public School, Patna            | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- Semester Merit Award, IIT Delhi :** Awarded for being amongst the **top 7%** in the batch for **4** semesters [2015-2018]
- Department Rank :** Ranked **1 out of 40** students in the Chemical Dual Degree programme for **6** semesters [2015-2018]
- Undergraduate Teaching Assistant:** Received **Certificate of Appreciation** from UGS, IIT Delhi & MHRD Scholarship [2018]
- Minor in Economics :** Completed 11 out of a minimum of 20 credits required, got **A** grades in Micro & Macro economics [2018]
- Equity Research Initiative:** Successfully completed an online course on equity analysis of publicly traded companies [2016]
- CBSE Merit Award :** Received the award for an outstanding performance in all the **5** subjects in Xth grade [2012]

## INTERNSHIPS

- Institute of Multi-Scale Simulations, Germany | Process Intensification in Oil industries** [Jun, 2018 - Jul, 2018]
  - Represented IITD through joint **Indo-German** project under the collaboration of **UGC(India) & DAAD(Germany)**
  - Developed novel methods for reactor simulation used in oil refineries using **stochastic** calculus and integral geometry
  - Enhanced research techniques which would **facilitate** Indian refineries **adapt to Euro VI** norms set to roll out in 2020
- Haldor Topsøe, Denmark (Headquarters) | Digitization of the Methanol Plants** [May, 2017 - Jul, 2017]
  - Developed **mobile platform** with advanced GUI to simulate **4** methanol plants in **real time** for China based clients
  - Brainstormed functionalities of the app & defined **user stories** by liaising with the Chemicals Technology and IT teams
  - Empowered remote clients with easier plant operations by realizing company's **first ever** client-centric digital products
  - Received Letter of Recommendation for impressive work from the Technology Manager, Chemicals Technology team*
- Institute of Membrane Technology, Italy | Improving the efficiency of Water purification** [May, 2016 - Jul, 2016]
  - Conducted **20+** experiments to compare the performance of commercial PP and lab made PVDF membranes
  - Demonstrated that PVDF membranes showed **better performance & had potential to replace** PP ones for water purification
  - Received Letter of Recommendation for exemplary work from Professor Enrico Drioli, Director of the Institute*

## POSITIONS OF RESPONSIBILITY

- Tryst, IIT Delhi | North India's largest technical festival**
  - Overall Coordinator, Design & Creativity :** [Oct, 2017 - Feb, 2018]
    - Led a **3** tier team of **3** creative coordinators and **10+** activity heads to conceptualize & implement the theme of the fest
    - Liaised with multiple teams like events, guest lecture and marketing to set up a **timeline**, ensured smooth functioning
    - Facilitated marketing & publicity by monitoring quality & professionalism in designs in terms of coherence & **aesthetics**
  - Coordinator, Design & Creativity :** [Oct, 2016 - Feb, 2017]
    - Conceptualized the **theme** of the fest ("Decoding the Pattern"), designed the **marketing** and fest brochure
    - Managed timeline and distribution of work among **10+** activity heads while ensuring equal & manageable workload
    - Increased online outreach and footfall by initiating the use of **GIFs and animations** for the **first time** in Tryst
- Department Convener | Awarded "Significant Contribution" to CAIC** [Jul, 2017 - Apr, 2018]
  - Elected to the highest academic affairs body of IITD as **1 out of 3** representatives of **300+** chemical department students
  - Raised and solved mutual concerns of students & professors by convening a **platform** in coordination with several professors
  - Facilitated changes in department's industrial training policy, enabling students to earn design credits through **non-core** intern

## EXTRA CURRICULAR ACTIVITIES

- Entrepreneurial | Student Startup Action Programme, Industrial Research & Development (IRD), IIT Delhi** [2017]
  - 1 out of 8 teams selected after pitching a **business plan** proposal for a **Seed** grant of **2** lakh rupees by IRD, IIT Delhi
  - Proposed an India centric approach to producing bio-plastics at a reduced cost by using locally available raw materials
- Sports | Cricket : Captain of Aravali House, led the team in the BSA, IIT Delhi Inter-Hostel cricket competitions** [2015]
  - Led initiative to set up a team, conducted trials to select talented players & organised regular training sessions to hone them
  - Runners Up**, Tata Collieries Sports Association, Dhanbad under 14 cricket tournament [2007]
- Social Endeavours | Actively participated in various activities as a volunteer of National Service Scheme, IIT Delhi**
  - Vidya Teaching Initiative : Volunteered to mentor and gave free tuition to **3 underprivileged** students of grade V [2015]
  - Green Warrior : Organised sessions for increasing **awareness** of food, water & electricity wastage among hostel residents [2015]



# YASH CHAUDHARY



## ACADEMIC DETAILS

| Year | Degree / Board                            | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech and M.Tech in Chemical Engineering | Indian Institute of Technology, Delhi | 8.07           |
| 2014 | C.B.S.E.                                  | St. Michael's High School, Patna      | 96.6           |
| 2012 | I.C.S.E.                                  | Rose bud School, Patna                | 93.2           |

## SCHOLASTIC ACHIEVEMENTS

- **International Mathematics Olympiad** : Received Medal for securing **State Rank 1** and **International Rank 120** (2014)
- **National Science Olympiad** : Awarded Certificate of Merit for securing **State Rank 1** and **International Rank 146** (2014)
- **NSEA** : Awarded for being placed in **Statewise top 1%** of the candidates enrolled in Bihar, conducted by IAPT (2014)
- **Minor Area Specialization** : *Department of Humanities & Social Sciences* focusing on **Economics**, with **8.8 CGPA** (2018)
- **MHRD Scholarship**: Received scholarship from Govt. of India and granted postgraduate teaching assistantship (2018)
- **Certificate of Achievement** : AIR 5, Young Scientist Talent Test; Rank 1, Iconik Brain of Bihar, conducted by BIT (2014)
- **Pratibha Samman** : Awarded by the ISKCON Chairman for exceptional performance in Class 12 at State Level (2014)

## INTERNSHIPS

- **Denave India, Noida** (May-July,2018) : **Market Analyst** ; *Database Market Study and Competition Analysis*
  - Scrutinised **11** out of **53 DaaS** competitors on the basis of their database coverage, business and pricing model relevance
  - Performed an exhaustive **due diligence** of **15** companies to better understand the product and price points' flexibility
  - Revamped **new product** by identifying target market segment, relevant features and best pricing model with price points
  - Presented suggestions to the **Global CEO**, recommendations were **approved** and **forwarded** for institutionalisation

*Received Pre-Placement Offer (PPO) as a **Business Analyst** and special **Recommendation** from the Senior Manager*
- **ITM-CNR, University of Calabria, Italy (Dr. A. Figoli)** (May-July, 2016) : *Membrane Preparation and Characterisation*
  - Devised **new membrane** application to reduce pollution and transportation leakage by preparing PVDF membranes
  - Produced membranes **cheaper in cost** for use in different filtration applications by changing component concentration

*Received special **Recommendation** from Dr. Sergio Santoro for devising unique applications of polymeric Membranes*

## POSITIONS OF RESPONSIBILITY

- **Core Team Member, Tryst 2018** (July, 2017 - February, 2018) :
 

*1 out of 6 nominated to spearhead a **4 tier** team of **50+** coordinators and **200+** volunteers to plan and organise the fest*

  - **Marketing and Sponsorship** : Introduced 3D campus map for virtual tours and allocation of sponsors' branding spaces
    - Provided tech-entertainment by showcasing Formula E Season 4 **race winner** Mahindra's **M4 Electro** & VR setups
    - Collaborated with Robosapiens for technical workshops and national level competition at scale of **10000+** participants
  - **Inter Department** : Played a pivotal role in organisation and execution of the fest through cross department collaborations
    - **Guest Lectures** : Achieved **83%** reduction in travel cost by associating with 2 colleges to **co-fund** visit of int'l lecturers
    - **Finance** : Reduced financial work by **diverting sponsors' fund** directly in organising comedy series with leading artists
    - **Events** : Assisted the events team with **highest ever** events' funds by strategising & designing sponsor centric events
- **Coordinator, Marketing and Sponsorship, Tryst 2017** (August 2016 - February, 2017) :
 

*Supervised the Marketing team of **15+** activity heads & **30+** volunteers to raise sponsorship and establish media tie ups*

  - **Marketing and Sponsorship** : Formalised **first** ever closing ceremony by a techno-cultural night **Trinity** along with **Nexa**
    - Achieved **highest** ever title sponsorship by partnering with **JCB** in 1 month record time, resulting in **100%** YOY growth
    - Reduced travel cost of fest by **60%** by partnering with **Air India** to cover major international and domestic travel expense
    - **Publicity** : Expanded outreach by fabricating **first** Media Blueprint & engaging **100K+** social media audience of EventsHigh

## EXTRA CURRICULAR ACTIVITIES

- **Cultural and Sports Endeavours** : *Involved in **30** Inter and Intra Hostel activities in Drama, Quizzes, Debates*
  - **Runners up**, Inter Hostel Street Play Competition; **Director and Script Writer**, Inter-Hostel Mime Competition (2016)
  - **Runners Up**, Inter Hostel Water Polo Competition amongst 11 participating hostels organised by BSA, IIT Delhi (2015)
  - **Winner**, Intra Hostel Quizzing Competition in Exuberance; Participated in **7** Inter-Hostel Annual Quizzing Events (2016)
  - **Gold Medalist**, Hector Angus Brown Memorial Inter School Debate; **Winner**, Intra-School Debate Competition (2011)
  - **Exuberance**: Managed events & raised sponsorship for the **first** Intra Hostel Fest including **9** events over 3 days (2016)
- **Awards** : *Recognised multiple times for the leadership and extra curricular accomplishments at institute level*
  - **Outstanding Contribution to Tryst** : Awarded for establishing **flagship sponsorship** companies for three years (2018)
  - **Gem of Aravali** : Awarded in the senior year for **all-round** contribution to the hostel extracurricular activities (2018)
  - **Significant Contribution in Cultural Activities** : Awarded to the biggest sophomore enthusiast in cultural field (2016)



# VIPPARTHY SAI ESVAR



## ACADEMIC DETAILS

| Year | Degree / Board                                  | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech in Computer Science & Engineering        | Indian Institute of Technology, Delhi | 6.135          |
| 2014 | Board of Intermediate Education, Andhra Pradesh | Narayana Junior College               | 97.1 %         |
| 2012 | Board of Secondary Education, Andhra Pradesh    | Aditya Public School                  | 9.8/10         |

## INTERNSHIPS

- **Plebiscite IT Services, Noida** (May, 2018 - July, 2018) : **Blockchain Development**

- Researched on various blockchain implementations available in market, their functionalities, their pros and cons.
- Worked with a few **Hyperledger** blockchain products like *Iroha, Sawtooth, Fabric*.
- Coded **Solidity Smart Contracts** that tackle real world problems concerning physical assets, over **Ethereum testnet**.
- Learned building **DApps**, linking them to a blockchain network and their differences from a traditional web applications.
- Utilized different tools such as *Docker, Ganache-cli, Metamask, Remix, Vuejs* for building blockchain applications.

- **Defense Electronic Research Laboratories, Hyderabad** (May, 2016 - June, 2016) : **Windows Application**

- Designed and built a **front end windows application** that rendered any changes in the vicinity of a radar station.
- Implemented the addition and update logic, and provided different methods for data input.
- Rendered a wide range of entities on an **interactive map** to help any station monitor various activities around it.
- Familiarised with *Microsoft Visual studio, C# and .NET framework*.

## PROJECTS

- **Summer Project- Traffic Simulation (Prof.M.Balakrishnan)** (May, 2017 - July, 2017) :

- Aquainted with the tools **SUMO** and **SimTraM**. Rendered a few existing traffic control models and traffic patterns.
- Modified the source code of *Simulation of Urban Mobility*, to accommodate a variety of **Indian traffic patterns**.
- Added a few Indian traffic patterns to further help studies for **traffic control** through dynamic traffic signal systems.

- **Course Project- Artificial Intelligence (Prof.Mausam)** (Oct, 2016 - Nov, 2016) :

- Built a **3-ply Bot** for a highly intellectual game **Tak**.
- The bot functioned based on an adversarial search algorithm, **Min-Max search**, implemented along with **cutoff** and **alpha-beta pruning**.

- **Course project- Statistics for management (Prof.Amlendu Kumar Dubey)** (Oct, 2017 - Nov, 2017) :

- Studied the various determinants that influenced pricing of automobiles in the US in 2016 using **RStudio**.
- Built a **multivariate linear regression model** for a real dataset from kaggle and tested the model's efficiency.

## TECHNICAL SKILLS

- **Programming Languages:**

- C, C++, C#, Java, Python, sml, ocaml, Javascript, HTML, VHDL, ARM assembly language, R, Solidity.

- **Software and Tools:**

- Docker, Remix online IDE, Android studio, Visual studio, RStudio, MATLAB, SUMO, Truffle, Vuejs, flask, ARM Sim, Xilinx, smlnj, POVRAY, Autodesk Inventor, Eclipse, MS Office.

## COURSES DONE

Intro. To Computer Science, Intro. To Electrical Engg., Data Structures And Algorithms, Discrete Mathematical Structur, Digital Logic & System Design, Probability & Stochastic Pro., Computer Architecture, Design Practices, Signals And Systems, Principles Of Artificial Int., Computer Networks, Analysis &design Of Algorithms, Operating Systems, Cloud Computing Techno. Funda., Statistics For Management, Programming Languages, Intro. To Database Mgmt. Syst.

## SCHOLASTIC ACHIEVEMENTS

- **National Talent Search Examination 2010:** Secured the prestigious, National-level scholarship provided by NCERT.
- **National Standard Examination in Astronomy 2012-13:** Secured a place among the top 10% among 871 participants.

## EXTRA CURRICULAR ACTIVITIES

- Successfully completed the code.fun.do hackathon conducted by Microsoft in Jan,2016 at IIT Delhi.
- Played forward for hostel hockey team in inter hostel matches for two years.



# DEEPAK BANSAL



## ACADEMIC DETAILS

| Year | Degree / Board                                      | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech and M.Tech in Computer Science & Engineering | Indian Institute of Technology, Delhi | 8.561          |
| 2014 | Central Board of Secondary Education                | Modern Delhi Public School            | 93.8%          |
| 2012 | Central Board of Secondary Education                | Modern Delhi Public School            | 10.0           |

## SCHOLASTIC ACHIEVEMENTS

- **HPAIR Kuala Lumpur, 2018:** Represented India (**600 delegates / 60 countries**) at **Harvard University's** conference
- **Semester Exchange, IMT Douai France, 2016:** **1 of 20** students nationally to secure **Charpak Scholarship** worth **Rs 2.5L**
  - Received **2 Letters of Recommendation**; Secured highest course grade in 5+ nationalities; Pursued self-initiative project
- **National Runner-Up, Tata Makerthon'16:** Award of **Rs 1L**; 200+ teams in 3-rounds contest; designed smart messaging app
- **Publications:** *Empirical Analysis of Presence of Power Elite in Media*; **1 in 10** globally to be **Published in COMPASS' 2018 - Big Data Modelling for SAFE-ICU**: **1 of 3** Indian works presented at **EASYM Conf. Berlin'16**; project currently deployed in **AllMS**
- **Jawahar Gajree Memorial Scholarship, 2017:** **1 of 6** students awarded by IIT Delhi for consistent **All-Round Excellence**
- **Second Runner-Up, Nutanix HackX, 2015:** developed web app, *SchoolBuddy* for teacher-parent-children connectivity.
- **Blockchain & Cryptocurrency:** built leading-edge projects on **Smart Contract** deployed on **Ethereum Blockchains**
- **Department Change:** top **7** in **800+** students on stellar academic performance; Won **IITD Semester Merit Award** thrice
- **Kishore Vaigyanik Protsahan Yozana Fellowship, 2012.** **InPhO, InChO:** Merit certificates for being in **National Top 1%**
- **Indian National Mathematics Olympiad:** Qualified **RMO** thrice ('11,'12,'13); Secured **Rank 2** in Delhi-NCR region in '13

## INTERNSHIPS

- **Goldman Sachs, Hong Kong** (May, 2018 - July, 2018) : **Strategist, Securities Division, 1 of 3** selected from India
  - Created Live Dollar Price and IR Delta Risk **Prediction Machine Learning Model** for trading exotic derivatives
  - Obtained test accuracy of **80%**; recognised by firm as **impactful work** with potential to aid traders in revenue growth
  - Achieved **high speedup** and significantly reduced usage of computational power compared to existing approaches
  - Completed **2 projects**; Setup cloud computing environment for **parallel** computation of various **market sensitivities**
- **The University of Tokyo, Prof. Kenta Nakai Lab** (May, 2017 - July, 2017) : **RNA Sequence Data Analysis**
  - 1 of 10** students via Indian Japanese Education Program; Awarded **JASSO Scholarship** worth **Rs 2L** by Govt. of Japan
  - Identified 10 prominent biomarker clusters from a dataset of **68k** peripheral blood cells using **Consensus Clustering**
  - Developed a comprehensive R module incorporating data filtration, **dimensionality reduction (PCA)** & t-SNE visualizations

## POSITIONS OF RESPONSIBILITY

- **Core Team Member, Finance, Tryst'18** (Aug'17 - Apr'18) : **1 of 6** nominated to lead **4-tier team** of 50 coordinators & 200 volunteers
  - Conceptualized, planned and executed **70+ events & 15+ seminars** for North India's largest technical fest (footfall 40k)
  - **Revamped Finance model** to transfer all fest-accounts under a more transparent regime with comprehensive auditing
  - **Reduced** fest expenditure by **35%** through aiding in barter deals, bringing in attractive in-kind prizes & change of vendors
  - **Minimized** cash based transactions by **50%** while adopting completely digital, transparent & GST-compliant measures
  - Led **Technical team** for design & development of in-house web & mobile platforms for the **1st time in Tryst's history**
  - Reduced expenditure of hosting the website by **90%** by convincing free rental of server space through a fest sponsor
- **Events Coordinator, Tryst'17** (Sep'16 - Mar'17): **1 of 50** coordinators selected for management & conduction of the fest
  - Moderated panel discussion on *Crackdown on Black Economy* featuring **Padma Shri Awardee** & other popular figures
  - Anchored keynote guest talk by **Dr. R. Chidambaram**; Managed Techno-Cultural Night by Intl visual DJ **AFISHAL**.
- **Core Team Member, Wellness Club** (Jan'17 - Aug'17): Led a team of **30+** members for the newly formed institute club.
  - Launched and popularized **IIT-MEDITATES**, a regular institute event attended by **150+ students** every week.
  - Planned & executed events pivotal in encouraging physical, social & intellectual awareness amongst IITD fraternity.

## EXTRA CURRICULAR ACTIVITIES

- **World Business Dialogue, Germany 2019 :** **1 of 300** delegates selected from **70+** nations for the leadership conclave
- **Debating and Public Speaking :** Represented Aravali hostel in all debating competitions, 2014-2017
  - **Semifinalist**, IIT Parliamentary Debate'17 from 30+ teams; **Top 15** in *Clash of Titans'15, National Level Extempore*
  - **Winner**, Aravali Premier League 2016, Asian Parliamentary Debating Championship held during Exuberance'16
  - **Representative, Debating Club** (Apr'15 - Mar'16): organized events witnessing **500+ participants** from **50+ colleges**
  - Led Aravali Hostel to **podium finish** in *Stalwarts*; Revamped hostel debating culture **increasing participation** by 250%
  - Organized **national level debating tournaments** *Debutant* in Rendezvous'15 and *IIT Parliamentary Debate* in Tryst'16
- **Foreign Exchange, France:** experienced immersive academic & cultural exchange with students from **10+ nationalities**
  - Advanced level of proficiency in **French**; Selected as **mentor** to **visiting international** exchange students at IIT Delhi
  - **Smart Home Modelling Project:** developed an efficient **ML** model for optimization of thermal comfort in a smart home



# DASARI VENKAT RAMANA



## ACADEMIC DETAILS

| Year | Degree / Board                                 | Institute                             | GPA / Marks(%) |
|------|--|---------------------------------------|----------------|
| ---  | B.Tech in Mechanical Engineering               | Indian Institute of Technology, Delhi | 5.671          |
| 2014 | Andhra Pradesh Board of Intermediate Education | Narayana Junior College               | 91%            |
| 2012 | Andhra Pradesh Board of Secondary Education    | Mount Carmel High School              | 9.0            |

## QUALIFYING EXAMS

- Joint Entrance Examination (JEE) Advanced Rank: 2392 (OB)

## COURSES DONE

Product Realization By Manf., Solid Mechanics, Fluid Mechanics, Kinematics & Dy. Of Machines, Mechanical Engg. Drawing, Manufacturing Processes I, Cad & Finite Element Analysis, Manufacturing System Design, Mechanical Engineering Lab - I, Manufacturing Laboratory-ii, Engineering Thermodynamics, Intr.to Material Sc. & Engg., Minor Design Project - Vi, Design Of Machines, Manufacturing Processes II, Cam And Automation, Manufacturing Laboratory I, Mechanical Engineering Lab -ii, Numerical Methods& Computation, Control Theory & Applications, Introduction To Statistics

## IIT DELHI THESIS

- Title** Analysis and Design of Tune Dynamic Vibration Absorbers for Continuous Systems (July2018-Present)
- Supervisor** Dr. Subodh V. Modak
- Description of work**
  - Analyzing of Damped & Undamped for both free vibration and Forced Vibration for Single & Multiple DOF.
  - Analyzing a Tune neutralizer for continuous systems and properties of neutralizer.
  - Analyzing of beam vibration and factors affecting effectiveness of neutralizer on beam vibration.
  - Designing a tune neutralizer in accordance to provided beam and location at which neutralizer has to be placed on beam at different modes.
  - Simulation of modes in **Matlab** so as to analyse working and behavior of neutralizer.

## PROJECTS

- Organic Rankine Cycle for hot water springs (Prof P.M.V Subba Rao)** (May2017-July 2017)
  - Analysis** of thermodynamic issues related to selection of working fluid.
  - Evaluating criteria for selection of most suitable working fluid taking into consideration design,environmental factors and efficiency.
  - Simulation** on different working fluids to analyze optimum specific work/pressure ratio and efficiency/pressure ratio.
- Fabrication and Performance of Electro Pulsating Clock(Prof S.R.Kale & Prof.J.P.Khatait)** (July 2017- Nov 2017)
  - co-led** a team of four to build an electro-pulsating clock which doesn't loses it's time.
  - Objective is to make a pendulum that maintains its time period by taking controlled electrical energy from magnetic coil. And to prepare a method for starting, stopping and adjusting it.
  - 3-D modeling of Electro Pulsating clock using solid works and 3-D prototype has been produced from scratch.
  - Making uncertainty analysis of data collected through experiments and theoretical values.
- Design Optimization of Lawn Mover (Prof.J.P.Khatait)** (oct 2017-Nov,2017) (**Course Project**)
  - Managed** a group of four to optimize a design of lawn Mover considering failure theories.
  - 3-D modeled a Lawn mover using Solid works software
  - Selected suitable materials in Ansys software under product considerations.
  - Calculated the Stress and Strain Analysis at different parts and diffrent nodes of Lawn Mover using Ansys.

## TECHNICAL SKILLS

- Programming Languages:** Ocaml, R-Package 3.2.3, Matlab, Python
- Softwares:** Autodesk Inventor,Solid works, Catia, Ansys, MasterCam, FluidSim(Pneumatics), Automation Studio, PLC programming, MS Office full package.

## SCHOLASTIC ACHIEVEMENTS

- HRD Scholarship :** Received Merit-cum-Means(MCM) for the academic year 2014-2015

## EXTRA CURRICULAR ACTIVITIES

- Aero Modelling Workshop:** Participated in Boeing's Aero Modelling workshop and created a wooden glider.
- Represented** a team in Intra Hostel Cricket Tournment
- Awarded** Merit Certificate for excellence in Maths and Science from Unified Science Academy



# GAUNDAR ANIKET DEELIP



## ACADEMIC DETAILS

| Year | Degree / Board                   | Institute                             | GPA / Marks(%) |
|------|----------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Mechanical Engineering | Indian Institute of Technology, Delhi | 5.488          |
| 2013 | MSBSHSE                          | Shree Sarswati Bhuvan Highschool      | 76.83          |
| 2011 | MSBSHSE                          | SBES Junior College of Science        | 92             |

## COURSES DONE

Intro. To Computer Science, Calculus, Profe. Ethics & Social Resp., Electromagnetic Waves&qua.mec., Product Realization By Manf., Linear Algebra & Diffe. Equa., Fluid Mechanics, Introduction To Economics, Engineering Thermodynamics, Computational Mechanics, Positive Psychology, Energy Systems And Tech., Introduction To Statistics, Control Theory & Applications, Cad & Finite Element Analysis, Introduction To Combustion, Mechanical Engineering Lab - I, Manufacturing Laboratory-ii, Manufacturing Processes ii, Heat And Mass Transfer, Intro To Operations Research, Manufacturing Laboratory I, Mechanical Engineering Lab -ii, Numerical Methods& Computation, An Introduction To Literature, Cad & Finite Element Analysis, Professional Ethics, Technology Of Utilization Of Wastelands & Weeds

## QUALIFYING EXAMS

- Joint Entrance Examination (JEE) Advanced Rank: 720 (GE)

## IIT DELHI THESIS

**Title:** Identification and control of shaft vibrations using electromagnetic excitation.

**Supervisor:** S. P. Singh

**Description:** Experimental and theoretical analysis of vibrations generated in shaft using electromagnetic excitation. Modal analysis of the vibrations and testing suitable control techniques.

## SCHOLASTIC ACHIEVEMENTS

- NTSE: Cleared all three levels of National Talent Search Examination. Qualified for the award of scholarship and Certificate of Merit.
- INChO: Selected among top 300 students for Indian National Chemistry Olympiad (2014).

## PROJECTS

- Auto report generation using NLP-Machine Learning(Samar Husain)(May,2017- July,2017)
  - Exploratory textual data analysis of Sanctuaries and National parks in India
  - Classified News text data of Sanctuaries and National parks implementing K-means clustering algorithm on the basis of distinct parameters
  - Auto generated report at different levels of analysis using NLP and IPython.

## TECHNICAL SKILLS

- Programming Languages : Python(Jupyter Notebook, Numpy, Scipy, Pandas, Scikit-Learn), C++, R
- Machine Learning : Regression models, K-means clustering, NLP
- Softwares : MATLAB, RStudio, Graphlabs, MS-Excel, MS-Powerpoint.

- You can check my projects on Github:

- **GITHUB LINK** : <https://github.com/anigaundar>

- Introduction to Data Science (edX)

- Python for Data Science (edX)

- Machine Learning (Andrew Ng, Coursera)

## EXTRA CURRICULAR ACTIVITIES

- I have a widespread interest in the field of Data Mining, Data visualization and Statistical Data Analysis for better Business Decisions. Currently I do personal Data Science projects involving data exploration, data cleaning, Machine learning and critical analysis in my free time for my portfolio.
- I teach Mathematics to students of class VIII to XII as private tutoring, both online and offline.
- Besides all I am a very good cook.



# NIHARIKA



## ACADEMIC DETAILS

| Year | Degree / Board                    | Institute                               | GPA / Marks(%) |
|------|-----------------------------------|---|----------------|
| ---  | B.Tech in Mathematics & Computing | Indian Institute of Technology, Delhi   | 7.025          |
| 2013 | CBSE                              | Delhi Public School Ghaziabad           | 87             |
| 2011 | ICSE                              | St. Mary's Convent School,<br>Ghaziabad | 91             |

## COURSES DONE

Linear Algebra & Diffe. Equa., Intro. To Computer Science, Intro. To Electrical Engg., Calculus, Data Structures And Algorithms, Linear Algebra & Applications, Discrete Mathematical Struc., Digital Electronics, Differential Equations, Optimization Methods & Appl., Real And Complex Analysis, Computing Laboratory, Computer Architecture, Mind, Machines And Language, Linear Algebra & Applications, Probability & Stochastic Pro., Numerical Methods& Computation, Analysis &design Of Algorithms, Minor Design Project - I, Design And System Laboratory, Statistical Methods, Functional Analysis, Graph Algorithms, Data Mining

## PROJECTS

- **Photo Editor (Preeti Ranjan Panda)** (April, 2016 - May, 2016) :
  - Part of the course COL100
  - Wrote the complete C++ code for a photo editor, (capable of- changing colours of pixels, changing image saturation, and similar pixel colour manipulation tasks.)
  - Face morphing- Wrote code for morphing one given face to another given face with n intermediate images.
  
- **Art from junk (PVM Rao)** (July, 2017 - August, 2017) :
  - Converting junk(scrap metal,electronic equipments) to an art installation in the campus (spelling the letters IIT)
  - Included mechanical tasks (welding, drilling, casting , etc.)
  - Included creative tasks(painting etc)
  
- **Shuttlecock Collector (Pramit Kumar Chowdhury)** (May, 2018 - Ongoing) :
  - Fabricating a mechanical contraption to collect shuttlecocks from the field without much human effort.
  - Using a conveyor belt mechanism, the device collects shuttlecocks from the ground.

## INTERNSHIPS

- **Pratham Education Foundation, Gurugram** (May, 2018 - June, 2018) : *Content Development and Translation*
  - Made and translated videos for Haryana board, Science, Classes 5-8.
  - Video editing tasks like translation, merging,adding background scores to make it more appealing to students of class 5-8.
  
- **BloodConnect Foundation, IIT Delhi** (June, 2017 - July, 2017) :
  - Informing strangers about the health effects of blood donation and the shortage of blood in blood banks.
  - Convincing them to register as emergency blood donors.

## TECHNICAL SKILLS

- Experienced with Java, C, C++, Python
- AUTOCAD
- SQL
- MATLAB
- Adobe Photoshop

## EXTRA CURRICULAR ACTIVITIES

- Long distance running, Athletics Club
  - 800m race, 2nd position, inter-hostel 2014
  - 400m race, 3rd position, inter-hostel 2014
  
- Music Club
  - Solo Singer, 2nd position, Jukebox 2015
  
- Sur-O-Saaz 2011

- second place, keyboard light

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- Table Tennis FSLG tournament 2010

- second place

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- 200m Inter-house 2011

- second place

## SCHOLASTIC ACHIEVEMENTS

- **Inter-house Literary Quiz Competition** 2012

- Second place



# ABHISHEK KUMAR



## ACADEMIC DETAILS

| Year | Degree / Board                    | Institute                             | GPA / Marks(%) |
|------|-----------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Mathematics & Computing | Indian Institute of Technology, Delhi | 5.6            |
| 2013 | CBSE                              | MODERN ACADEMY, GAYA                  | 91.6           |
| 2011 | CBSE                              | D.A.V PUBLIC SCHOOL, GAYA             | 9.8            |

## SCHOLASTIC ACHIEVEMENTS

- **International Mathematics Olympiad:** Secured **225 rank**; obtained **99.45 percentile** (2009)
- **International Mathematics Olympiad:** Secured **392 rank** in final round conducted by SOF (2010)
- **National Science Olympiad:** School **rank 1**, scored **90 percentile** (2008); scored **97 percentile** (2010) conducted by SOF

## INTERNSHIPS

- **Visiting Student Researcher, MIT Media Lab, Cambridge, MA, United States** (January 2018 - May 2018) :
  - **Managing Bluetooth location beacons from the central server**
  - **Created** a Beacon model in the server and hub code and **changed** the server API to support it
  - **Designed test** to ensure that the changes work. **Analyzed** the data to ensure that the system behaves as expected **Improved monitoring capabilities from the central server**
  - **Modified** hub & server code to collect more health data from badges and beacons and send them to the server
  - **Analyzed & visualized** collected data using **python libraries** to ensure that microphone sensitivity remained the same **Replacing obsolete Bluetooth library in the firmware development environment**
  - **Replaced** Adafruit Bluetooth library with Bluepy, while keeping the same API / abstraction layer
  - **Modified integration tests** to work with the new implementation
- **Research Assistant, IIM Bangalore** (May, 2017 - July, 2017) :
  - **Fabricated & troubleshoot** hardware issues in BLE based badge & other hardware components.
  - **Compiled firmware for Nordic nRF51, a MDK-ARM Microcontroller** Development Kit
  - Set up & deployed python based hub & **server (django)** for communicating with badge on Ubuntu & Raspbian
  - Offered to work with MIT Media Lab Team**
- **Research & Strategy Analyst , Agrasar (NGO), Gurugram** (December 2016) :
  - **Assessed need & feasibility** to set up community library in the **underprivileged** area of Gurgaon
  - **Devised framework** to develop an understanding pertaining to problems faced by **early learners, active learners & experienced learners**. Based on this insight **suitable measures** were **suggested** in order to overcome the challenges
  - **Developed in-depth field understanding** through interaction with school goers, job seekers, and senior citizens
- **Research Intern, Indian Statistical Institute (ISI) , Kolkata** (May, 2015 - June, 2015) :
  - Got the overview of **quantum computation science** in a research-oriented environment.
  - Studied quantum dense coding, teleportation, key generation, information theory, entanglement distillation, non-locality.

## PROJECTS

- **Design Thinking : Pollution (Guided by Prof. PVM Rao)** (December 2016) :
  - **Interviewed** people to get insight & needs; **identified root problem** - apathetic attitude towards environment
  - **Proposed** initiative like selfie with sapling, information/awareness session.
- **Wheel cum Rocking chair (Guided by Prof. Sudarsan Ghosh)** (January 2014 - April, 2014) :
  - Used **basic manufacturing processes & conceptualized** conversion of rocking chair into wheelchair and vice-versa
- **Music Generation with RNNs** (January 2018 - May, 2018) :
  - Used MIDI music toolkit to **create dataset of music files & build model** that captures long-term dependencies
  - **Sampled** the model to **generate brand new music using tensorflow**
- **AIIMS wayfinding (Guided by Prof. PVM Rao)** (July, 2018) :
  - Shadowed patient to identify problems during navigation & suggested suitable measures to make **patient flow intuitive**
- **Data Mining (Guided by Prof. B.S Panda)** (Mar, 2016 - Apr, 2016) :
  - Implemented **Apriori Association & FP-tree** based algorithm to do **market basket analysis**
- **Rube Goldberg VR** (January 2018 - May, 2018) :
  - Made **Learning physics** for fun by making **Rube Goldberg Machine** in an immersive **VR environment**
- **App based Taxi service (Guided by Prof. Amitabha Bagchi)** (July, 2015 - Nov, 2015) :
  - Created **road network** using weighted graph & implemented **Dijkstra algorithm** to find the nearest taxi and best route

## EXTRA CURRICULAR ACTIVITIES

- Participated in **Microsoft Code.Fun.Do. Hackathon** and successfully submitted **working app**.
- MOOCs Done- **Human-centered Design** (coursera), **Learning creative Learning (MIT)**, Intro to Deep Learning



# PARAMKUSHAM SAI SATVIK



## ACADEMIC DETAILS

| Year | Degree / Board                               | Institute                             | GPA / Marks(%) |
|------|--|---------------------------------------|----------------|
| ---  | B.Tech and M.Tech in Mathematics & Computing | Indian Institute of Technology, Delhi | 6.196          |
| 2013 | Board of Intermediate Education (A.P)        | FIIT JEE JUNIOR COLLEGE               | 95%            |
| 2011 | AP STATE BOARD                               | SR HIGH SCHOOL                        | 95%            |

## COURSES DONE

Data Structures And Algorithms, Optimization Methods & Appl., Applied Game Theory, Probability & Stochastic Pro., Analysis &design Of Algorithms, Statistical Methods, Data Mining, Operating Systems, Financial Mathematics

## PROJECTS

- **Machine Learning and Data Mining** (Course Project) (November, 2017 - April, 2018) :
  - Implemented **TF-IDF feature extraction technique** to build a nearest neighbors model for retrieving documents.
  - Built a **sentiment classifier** by implementing **logistic regression** model to rate the products on Amazon based on the reviews.
  - Implemented **KNN** model for retrieving images using **deep features** and used it to find similar images on CIFAR-10 data set.
  - Implemented **FP Growth & Apriori Algorithms** to find **association rules** in the given data of itemsets using Python.
- **Generating Memorability Maps using CNN and RBM** (Prof Brijesh Lall) (January, 2018 - April, 2018) :
  - Used a pre-trained **Hybrid-CNN model**, trained on ImageNet dataset and fine tuned it to initialise the learning of new model on the ILSVRC 2012 dataset using a Euclidean loss layer with features combined in the spatial pyramid.
  - Created heat maps by incorporating the flexibility of **RBM** (object memorability) and learnability of **CNN** (feature memorability).
- **Binomial lattice models to estimate valuation of fixed income derivates** (January, 2018 - April, 2018) :
  - Used the calibration of the **term structure lattice** models to estimate the prices of the interest rate derivatives.
  - Implemented **Black Derman Toy** model in a discrete-time binomial framework for valuing options on treasury bonds.
- **Modelling DNA with Knot Theory** (Prof N Shravan Kumar) (January, 2017 - April, 2017) :
  - Used **four plats and rational tangles** to understand the structure and behaviour of DNA molecules and applied tangle equations to analyse and model site-specific recombination and enzymatic actions on synaptic complex and DNA.
- **Applications of Fractional Brownian Motion** (July, 2017 - November, 2017) :
  - Implemented **SVM** to detect Pneumonia, based on **frequency separation and fBm** model from chest X-Ray images

## IIT DELHI THESIS

- **Quantum Walk and Quantum Information** Prof. N Shravan Kumar

**Description:** Classical random walks and its applications in graph theory, algorithm design and financial mathematics.  
Quantum walks on graphs and hyper-graphs and its applications in quantum computation and spatial search algorithms.

## TECHNICAL SKILLS

- **Programming Languages:** Python, Java, R, HTML, CSS, Ruby, OCaml, LaTeX
- **Libraries:** GraphLab, Scikit-Learn, Pandas, Numpy, Matplotlib, Caffe

## POSITIONS OF RESPONSIBILITY

- **Co-Founder, Intellify** (May, 2017 - Present) :
  - Leading a 2 tier team of **300** across **4** verticals and organising activities for **10,000+** school students and **500+** teachers.
  - Conceptualised and organised **International Science and Creativity Olympiad** for 6000+ students in 150+ schools.
  - Led strategic partnerships with **Delhi Government** and **Teach for India** to increase the impact of the projects by 400%
  - Planned and organized 6-day summer boot camp for underprivileged students in collaboration with the **Department of Design**, IIT Delhi and **MHRD's Design Innovation Centre** with support from **Directorate of Education**, New Delhi.
  - Organised a gathering of the education ecosystem with vibrant sessions by prominent personalities like **Deputy CM** of New Delhi, experts from **Atal Innovation Mission, NITI Aayog**, professors from IIT's etc in collaboration with NSS IITD.
  - Conceptualised and conducted sessions/workshops on various aspects of education for **500+** students and teachers.
- **Executive, NSS IIT Delhi** (April, 2015 - March, 2016) :
  - Managed and lead a team of **200+** volunteers for 'Project Eklavya' at IIT Delhi in collaboration with Indus Action NGO.
  - Co-organised NSS IIT Delhi orientation for **800+** incoming students of 2015 at IIT Delhi to explain about projects of NSS.

## EXTRA CURRICULAR ACTIVITIES

- **CBSE:** Worked as a Content Developer for Udaan, a project launched by CBSE under the MHRD to mentor girl students.
- **Education Redesign:** Facilitated internships on remodelling education for 40+ individuals in collaboration with PESR, IIT Delhi
- **Social Internship:** Worked in the tribal villages of North Gujarat and implemented a curriculum to educate kids on various themes.
- **UNESCO:** Participated in the UN-LEARN workshop on difference learning organised by UNESCO MGIEP at IIT Delhi.



# VAIBHAV GUPTA



## ACADEMIC DETAILS

| Year | Degree / Board                               | Institute                             | GPA / Marks(%) |
|------|--|---------------------------------------|----------------|
| ---  | B.Tech and M.Tech in Mathematics & Computing | Indian Institute of Technology, Delhi | 7.152          |
| 2014 | CBSE   | Ramkrishna Vidya Mandir, Gwalior      | 92.8%          |
| 2012 | CBSE   | St. Pauls School, Gwalior             | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- **KVPY** : Secured AIR 187; awarded prestigious fellowship by Department of Science & Technology, Govt. of India [2013]
- **RMO** : Secured **Rank 1** in Regional Mathematics Olympiad (Madhya Pradesh), conducted by HBCSE [2013]
- **IMO** : Secured International **Rank 21** (State Rank 1) across 30 countries in International Mathematics Olympiad [2011]
- **NSEP** : Among statewise **top 1%** in National Standard Examination in Physics, conducted by IAPT [2013]
- **MHRD Scholarship** : Secured AIR 289 in GATE; awarded by Govt. of India to pursue master's degree [2018]
- **Firm Level Analysis** : 'Production Efficiency Analysis on Indian MSMEs'; found technical & economic efficiencies [2016]

## INTERNSHIPS

- **Capital One, Bangalore** (May, 2018 - July, 2018): *Business Analyst, Financial Services*
  - Designed **payment behavior prediction** model for delinquent customers to target customers who are unlikely to pay
    - Used **hypotheses tree** driven approach to identify key metrics for psycho-graphic **behavioral segmentation** of customers
    - Conducted **user testing** for specific user personas to verify hypotheses; built **regression model** to predict customer behavior

Received **Letters of Recommendation** from Manager, Financial Services and Data Science Head at Capital One, India
- **Info Edge, Noida** (May, 2017 - July, 2017): *Business Analyst, Jeevansathi.com*
  - Built popularity & activity based **recommender system** using hybrid of content-based & **collaborative filtering** methods
    - Solved **cold start problem** in similar profile search, minimized over recommendation issue using frequency capping
    - Executed **correlation studies** on male and female behavior, paid and unpaid users, user activity and user popularity
  - Designed framework for **spam user detection** using text mining for Scammer's Grammar and image analysis techniques

## POSITIONS OF RESPONSIBILITY

- **House Secretary**, Zanskar House, IIT Delhi (Apr, 2017 - Mar, 2018) :
 

Spearheaded 3 tier team of 7 secretaries and 15 representatives across 5 boards to handle hostel affairs of 450+ students

  - Initiated **waste management** and **cleanliness drive** to minimize budget and food wastage while ensuring hygiene
  - Commissioned **renovation** of hostel OAT, common room, surveillance system, gardens and kitchen drainage system
  - Uncovered involvement of mess staff in corrupt activities; filed complaint with evidences; resulted in action against offenders
- **Cultural Secretary**, Zanskar House, IIT Delhi (Apr, 2016-Mar, 2017) :
 

Led a team of 10 representatives across 2 boards to promote culture & secured podium finish in 4 inter-hostel events

  - Implemented a **mentorship program**, instrumental in selection of 16 students in the institute teams, **100% increase** YoY
  - Instituted an **internal point policy** system for inter hostel team selections to improve performance and participation
- **Core Team Member, Speranza**: Youth Fest, IIT Delhi (Apr, 2015 - Sep, 2015) :
  - Planned and executed campaign for **PAN** and **Aadhaar** card in IIT Delhi campus that led to a total of **200+** registrations
  - Conceptualized design of offline logistics for **10+** events; designed Speranza Team Identity cards for team of **70+** members

Awarded **Best House Secretary** by Board for Hostel Management for outstanding contribution to hostel & institute activities

## EXTRA CURRICULAR ACTIVITIES

- **Cultural Activities** : Active member, Photography and Films Club for **3+** years; Conducted **10+** film-making workshops
  - **Best Documentary**, Directed, shot & edited 'Locked'; movie against suicides & depression; **8,000+** views [2015]
  - **Winners**, Inter Hostel music video making competition, ideated music video 'Heathens', **2,500+** views [2017]
  - **Winners**, Inter Hostel movie making competition; **Director and lead actor** in the movie 'Reminiscence' [2015]
  - **Winners**, Inter Hostel Group Dance Competition; **first podium** finish in a dance event in **last 10 years** [2015]

Awarded **Roll of Honour**; highest recognition for exemplary contribution and podium finishes in cultural activities
- **Mentorship Experience and Social Endeavours** :
  - **Teaching Assistant** (IIT Delhi) : Mentoring multi-disciplined class of **200+** students in **Probability & Stochastic Processes**
  - **Campus Representative, Shiksha** (India's largest education platform) : Mentored **1000+** students in career related issues
  - **Student mentor** (IIT Delhi) : Mentored **6** freshmen through different facets of their life & guided them for smooth transition
  - **Board for Student Welfare** : Conducted surveys for **8000+** campus residents' issues; organized cycle & mattress camps
  - **Mass awareness campaign** : **10 days** campaign against Cancer; awarded in recognition of outstanding social service



# YOGESH S



## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Engineering Physics | Indian Institute of Technology, Delhi | 5.952          |
| 2014 | Karnataka State Board         | Alva's PU College, Moodbidre          | 96%            |
| 2012 | CBSE                          | Sri Sathya Sai school, Alike          | 10/10          |

## IIT DELHI THESIS

**Title:** Non-Contact Estimation of Heart Rate, Breathing Rate and Oxygen Saturation in blood using Photoplethysmography

**Supervisor:** Professor Dalip Singh Mehta

**Description:** A novel method is presented to track oxygen saturation changes in a controlled environment using an RGB camera present in the smartphone placed approximately less than 1.5 m away from the subject.

- This approach is based on **automatic face tracking** along with the time series of color values at any spatial location (pixel) and amplification of given temporal frequency band of interest in the video.
- The method of *blind source separation* of the color channels into independent components to reveal cardiac properties of the signal is also followed.
- We **validated** our values of HR with the commercially available contact based devices with the **mean variance < 5%**.

## INTERNSHIPS

- **3M India Pvt Ltd, R&D Centre Bangalore** (May, 2016 - July, 2016) : *Reflector and Lens system design using mathematical calculations*

- Used Mathematical tools, calculations and programming to derive the surface points for both the reflector and lens system of an automobile.

- **OTIS Elevator Company (I) Ltd, Bangalore** (May, 2017 - July, 2017) : *Mathematical Modelling of Traction and CoF with Temperature,*

- **Systematically reviewed** the literature surrounding belt\_sheave interaction in an elevator system including elastic creep theory and shear theory.
- Interacted with members from the **WHQ** and also parent company's research division **UTRC** who are the pioneers in this technology.
- **Modelled friction dependence** with the help of an emperical formula on *viscoelastic properties*in turn are temperature dependent.

## PROJECTS

- **Blistering and exfoliation in GaSb induced by H-ion implantation (Dr. Rajendra Singh)** (January, 2018 - May, 2018) :

Investigated the effect of **changing annealing temperature** on various parameters such as *blister diameter, blister hieght and exfoliation range*.

Simulations were done for both **Ge** and **GaSb** to understand the interdependence of the parameters which enabled us to estimate the amount of energy to be used as influx.

- **Study of Neural Synchronization with random walks for the course Computational Physics(Dr. Sujin Babu)** (July, 2016 - December, 2016) :

- Reflecting boundary conditions cause two one dimensional random walks to synchronize if a common direction is chosen in each step.
- The **mean synchronization time** and its standard deviation were calculated analytically. Both quantities were found to increase proportional to the **square of the system size**.

## SCHOLASTIC ACHIEVEMENTS

- Secured All India Rank of 183 in National Science Talent Search Examination(2009).

## TECHNICAL SKILLS

- C, C++, Java, MATLAB, LABVIEW.
- AutoDesl Inventor, Eclipse, SolidWorks, Microsoft Office, Latex.

## EXTRA CURRICULAR ACTIVITIES

- Awarded **Junior grade** in *Carnatic classical music(vocals)* by Karnataka Secondary Education Board.
- Served as **Activity Head** in *Sportech 2016* under Events section.



# SARISHT WADHWA



## ACADEMIC DETAILS

| Year | Degree / Board   | Institute                             | GPA / Marks(%) |
|------|--|---------------------------------------|----------------|
| ---  | B.Tech in Textile Engineering and M.Tech in Computer Science & Engineering | Indian Institute of Technology, Delhi | 8.263          |
| 2014 | CBSE   | Amity International School, Gurgaon   | 95.0           |
| 2012 | CBSE   | Amity International School, Gurgaon   | 10             |

## IIT DELHI THESIS

**Title:** Answering Regex Reachability Queries on Labeled Networks (*January, 2018 - Present*)

**Supervisors:** Dr. Amitabha Bagchi, Dr. Sayan Ranu, Department of Computer Science, IIT Delhi

**Aim:** Reduce time taken to answer regular expression based label constrained reachability queries on very large datasets

- Achieved high **accuracy (>95%)** using random walk search method on graphs where current advancements fail to scale
- Gained **4x -100x speedup** across different types of regular queries w.r.t. double sided breadth first search (baseline)
- Hybridised algorithm with baseline, to **improve speedup on negative queries**, trading for speedup on positive queries
- Currently incorporating **simple path queries** with no node being visited twice irrespective of the label at the time of visit

## INTERNSHIPS

- **Humanitics, New Delhi, Blockchain Developer** (June, 2018 - July, 2018) : *Blockchain in Retail Business*

**Aim:** To develop an online distributed ledger for all participants involved in retail transactions

- Used **Hyperledger Fabric** to maintain the ledger, allowing 100000 transactions in a day with a peak of 13000 per hour
- Developed use case for **five different participants**: Merchant, Customer, Advertiser, Payment Gateway and Financer
- Established **end of day settlement transaction** to reduce the number of transactions between concerned participants

- **EXL Service, Gurgaon, Decision Analyst** (May, 2017 - July, 2017) : *Optimization of Freight Train Movement*

**Aim:** Optimize previous fragmented development to maximize number of freight trains on two given routes

- **Removed** the previously imposed assumptions of **infinite parking and no junctions**, to make the solution more robust
- Enhanced **maximum number of trains by 110%** using Linear Programming with CBC solver in PuLP library of Python
- **Redesigned solution** for a route, without L.P., to further **increase train frequency by 20%**, with **code running time of 30%**
- Deployed **user friendly interactive diagrams** using Python library, Bokeh, to improve the presentability of the solution

## PROJECTS

- **Medical Diagnosis (Prof. Mausam)** (February, 2018 - April, 2018) *Course: Special Topics in Artificial Intelligence*:

- Achieved **98% accuracy** on training dataset and **97-99% accuracy** on test datasets, in **under 1 minute running time**
- Trained the parameters of **Bayesian Network model**, to diagnose medical conditions from a given healthcare dataset
- Iteratively imputed missing data points based on the **conditional probabilities given Markov Blanket** of the point

- **Licensed Media Distribution (Prof. Vinay Ribeiro)** (March, 2018 - April, 2018) *Course: High Speed Networks*:

- Created a **smart contract in Solidity**, to govern the sale of licensed media across the network using Ethereum Testnet
- Ensured release of **cryptic media link** (encrypted using buyers public key) **before release of money** to the media owner

- **Umbrella Coin (Umbrella Coin Corporation)** (December, 2017 - January, 2018) *Open Source Contribution*:

- Connected meteor based app to **Ethereum Blockchain network**, maintaining the token balance, during transfer of funds
- Incorporated a **random 10%** voting based system to allow claim of a policy and **remove** problem of **pool money hijacking**

- **Ludo Playing Bot (Prof. Huzur Saran)** (August, 2017 - October, 2017) *Course: Software Systems Laboratory*:

- Designed a bot to play Ludo based on **probabilistic minimax algorithm** with **deterministic parameters** for deciding action
- Secured the **highest points** in a tournament of all teams in the course with **56 wins out of 70** simulated games of ludo

## SCHOLASTIC ACHIEVEMENTS

- One of the three students selected to pursue **M.Tech. in CSE under advance standing program** after B.Tech. 3rd year
- Awarded **Kishore Vaigyanik Protsahan Yojana Fellowship** by Department of Science and Technology, India in 2013
- Among 1000 students to have cleared the **National Talent Search Examination** conducted by NCERT, India in 2010

## EXTRA CURRICULAR ACTIVITIES

- **The TriWizard Tournament**, EES, IIT Delhi: Secured 2nd position in 2016 and 3rd position in 2017 among IITD students
- **Faking the Research Competition**, Esya, IIIT Delhi: Secured 2nd position by presenting research on *Mind Palace* in 2016
- **Technothlon**, Techniche, IIT Guwahati: National Rank 59 in 2013-14 in senior squad (for class 11th and 12th students)





# ABHINAV ARORA



## ACADEMIC DETAILS

| Year | Degree / Board                                    | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech in Biochemical Engineering & Biotechnology | Indian Institute of Technology, Delhi | 7.748          |
| 2015 | Central Board of Secondary Education              | Delhi Public School, Faridabad        | 93.4           |
| 2013 | Central Board of Secondary Education              | Delhi Public School, Faridabad        | 10.0           |

## SCHOLASTIC ACHIEVEMENTS

- **HPAIR:** Accepted into **Harvard Project for Asian & International Relations 2018 Asia Conference** held in Malaysia (2018)
- **KVPY:** Received Kishore Vaigyanik Protsahan Yojana **Fellowship by GoI**; attended **NSC-Vijyoshi** in Kolkata (2013)
- **NTSE:** Placed in **State Merit List** of National Talent Search Examination; awarded **scholarship** by Haryana Government (2011)
- **Research Paper:** Co-authored- *Institutional & Policy Aspects of Punjab Agriculture*; undertaken for **publication in IJSER** (2018)
- **Merit Certificate by CBSE:** Secured A1 grade in all subjects in AISSE; **1st place**, *Ramanujan Inter-School Maths Comp* (2013)
- **First Proficiency:** Awarded scholarship of **25k**, **scholar medal** for excellence in academics; **overall 1st** in a batch of **300+** (2014)
- **Justice Grover's Gold Medal:** Accorded the highly reputed *Justice Grover's Most Disciplined Student Gold Medal* (2015)

## INTERNSHIPS

- **Deloitte Touche Tohmatsu India LLP, Gurugram** (May, 2018 - July, 2018): *Consulting, Strategy & Operations*  
Devised, **won proposal for potential client on immersive media**; **functioned in the Service Operations line of TMT segment**  
- Worked on live projects with **government organizations** & clients from **telecom sector**, industries in the field of **digital reality**  
- Framed Deloitte's perspective on *Enabling the inclusion story through NTP 2018*, a webinar presented in **ET Telecom** nation-wide  
*Received appreciation for superlative conduct; worked secondary research, formulated interview guidelines for 30+ players*
- **Wrig Nanosystems, New Delhi** (Jun, 2017 - July, 2017): *Research & Development*  
*Surveyed demand and utility of a prospective point-of-care product; computed the profitability of the blood control solution*  
- Assessed penetration of currently existing blood controls in the market in 30+ laboratories, hospitals across Delhi-NCR  
- Conducted feasibility tests for development of a blood control, narrowed down to **1 out of 5 fixatives** for real world use cases

## POSITIONS OF RESPONSIBILITY

- **General Secretary, Co-curricular & Academic Interaction Council (CAIC), IIT Delhi** (Apr, 2018 - Present):  
*Leading institute's highest student academic body of 50 conveners & 14 co-curricular clubs representing 8000 students*  
- Hosted North Zone Annual Expert Talk 2018 on e-mobility by **ISIEINDIA**; 500 participants from 108 colleges, 12 states  
- **Collaborated with IITH** to launch *Students Networking Forum* connecting 20+ Tier-1 and Tier-2 colleges across Delhi-NCR  
- Integration of **Industrial Field Trips** into UGC; reinitiated **Inter IIT Semester Exchange** to bring IITs under a single banner  
*Organized Harvard & MIT led International AI Hackathon sponsored by Google, IBM as Convener, DBEB in July, 2017*
- **Tryst, IIT Delhi** (Sept, 2017 - Present): *North India's largest technical festival graced by personalities like Narayana Murthy*  
**Overall Coordinator** (Apr, 2018 - Present): Spearheaded a 4-tiered team of **over 50 coordinators** and 200 volunteers  
- Conceptualised **80+ events** and reformulated team structure to efficiently manage the entire festival across **4 days**  
- Maximised sponsors' ROI by implementing 'pick and choose' brand model over traditionally used sponsorship models  
**Publicity Coordinator** (Sept, 2017 - Feb, 2018): Took over online, offline publicity of entire fest overlooking a **team of 30**  
- Rise in event participation, footfall; **30% increase** on FB page reaching **80k+ likes**; led pre-fest events in CP, other colleges
- **Hostel Cultural Secretary, BRCA IIT Delhi** (Apr, 2017 - Apr, 2018): Headed a 2-tiered team of 13 reps, 50+ volunteers  
- Administered 5 National level events in **Rendezvous'17**, North India's biggest Cultural Fest; managed **3000+ participants**  
- Brought in celebrity judges, **Zohaib Siddique** for very first time; created the common platform, **A-Muse** to boost engagement

## EXTRA CURRICULAR ACTIVITIES

- **Dramatics, Photography & Films:** Performed as actor and director in **16 National and Institute level events**  
**Professional Level:** Produced '**IITian ki Shaad**' solely, **14k+ views**; worked with *ReTake Entertainment*, **6k+ subscribers** (2017)  
- Being Indian, **1.8 million subscribers** on YouTube, auditioned & featured in one of their hit videos, **1.5M views** (2015)  
- **Ankahi Dramatics Society IITD**, acted in **3 distinct street plays** on prevalent issues in society as **Team Member** (2016)
- **National Level:** Winner, *National level Street Play Competition*, **Rendezvous**, exemplary act among many other teams (2016)
- **Institute Level:** Winner, *Inter-Hostel Music Video Competition*; won across 6 other teams with the video 'Enough' (2017)  
- **Fourth Position**, *Inter-Hostel Dance Music Video Competition*, scripted & acted in the political thriller '*Anaavar*' (2018)
- **Case Study:** Winner, *Xylomacy* in TATVA 2018, Annual Technical Fest of Department of Applied Chemistry, DTU (2018)  
- **Economics Course Project**, *Economic Data Analysis* on countries under SAARC; computed trends in GDP, urbanization (2017)
- **Social Endeavours:** Taught indigent kids under *Vidya Teaching Project*; donated blood in association with *Blood Connect*  
- **BSW Representative**, handled orientation of **800 freshers**; conceptualized Drug Abuse Campaign- *My Grey Story* (2016)  
- **Student Mentorship Program**, ensured smooth transition of **5 first year students** into IIT Delhi as **Student Mentor** (2017)  
- **Organisation & Awareness Internship, IRSC**, enumerated safety devices; identification of black spots in Delhi-NCR (2017)



# ABHISHEK KUMAR SAHU



## ACADEMIC DETAILS

| Year | Degree / Board                                    | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech in Biochemical Engineering & Biotechnology | Indian Institute of Technology, Delhi | 7.583          |
| 2014 | AISSCE (CBSE)                                     | Baby Martin Public School, Lucknow    | 90.00          |
| 2012 | AISSE (CBSE)                                      | Baby Martin Public School, Lucknow    | 10             |

## INTERNSHIPS

- **Zinnov Global Management Consulting Pvt. Ltd., Gurugram** (May, 2018 - July, 2018) : *Strategic Consulting*  
Worked on live project from a **\$40B American Industrial Conglomerate** aimed at devising *Digital Transformation in retail solutions*  
- Gathered **Market Insights** including pricing model & GTM strategy of **50+** competitors; performed primary & secondary research  
- Interviewed **200+** retailers in Delhi, Bangalore, Hyderabad, Lucknow; added value by taking *VOC of 45 retailers* for further analysis  
Received **Letter of Recommendation** from Principal Lead for exemplary performance, enthusiasm and dedication
- **MRD Life Sciences Pvt Ltd, Lucknow** (May, 2017 - July, 2017) : *Industrial Research & Product Development*  
- Analyzed the need of **natural blood thinner** in the Market; Researched for production of more effective anti-coagulant  
- Extracted an enzyme, *Nattokinase*, from bacteria present in soil and tested its effectiveness on coagulated human blood  
- Assessed cost of manufacturing of produced blood thinner revealed **lesser price** than existing natural blood thinners

## PROJECTS

- **Membrane based process design for Paper & Pulp industry** (Prof. GP Agarwal) (Aug, 2018 - Present) : Bachelor's Term Project  
Addressed challenge of obtaining **0-discharge stream** with low BOD, COD levels, free from toxic phenolic components of lignin  
- Tasked with attainment of **100% treatment** of pulp & paper effluents compared to meagre **existing 5%** using stage-wise method  
- Added value by recycling of waste water using membrane-based methods, **cut-down** on fresh water supply by **100 TPD**  
- Assisted **consultants** with technical aspects of membrane-based **recovery solutions** to spread awareness among industrialists
- **Statistical Inference** (Dr.Brian Caffo, Johns Hopkins University) (Jan, 2018 - Feb, 2018): *Coursera*  
Analyzed tooth-growth data with different hypothesis tests and simulated results in graphical form using **R programming**  
- Investigated the exponential distribution by taking average of 40 exponentials & performed simulation to prove Central Limit Theory
- **Modeling & Simulation of Bio processes** (Prof. Ashish Mishra) (Jan, 2018 - Apr, 2018) : *Course Project*  
- Built a **mathematical model** for study of gluconic acid fermentation by *Aspergillus niger* based on cell population balance  
- Compared theoretical & experimental data & applied linear & non-linear **regression** in the model using **MATLAB**

## POSITIONS OF RESPONSIBILITY

- **Coordinator, Infrastructure, Rendezvous'18** (Apr, 2018 - Oct, 2018) : *Led a 3 tier team to manage logistics*  
- Optimized **branding space** and resource allocation for sponsors by coordinating with marketing team and vendors  
- Coordinated with Marketing, Events, Publicity and Hospitality teams to achieve a common goal of propitious Rendezvous  
- Formulated extensive scheduling for **100 events** spanning over 4 days to facilitate management across **20 venues**
- **Maintenance Secretary, Board for Hostel Management** (Apr, 2017 - Mar, 2018) :  
*Elected by 450+ students to lead a team of 8 members to address issues related to sanitation, housekeeping*  
- Pioneered **5 vital projects**- established gym; renovated common & visitor room; beautified Garden and lawn area  
- Established exclusive **register system** for regular checking, cleanliness and working of sweepers, authenticated by residents
- **Coordinator, Infrastructure, Tryst'18** (November, 2017 - March, 2018) *North India's largest Technical Festival* :  
- Spearheaded **3 tier** structured, **25 member** team to manage all infrastructure requirements & inventory management of the fest  
- Restructured format, scheduling of events & coordinated with marketing team to optimize branding space allocated to sponsors  
- Ensured coordination with multiple vendors, efficient resource allocation; sound & lighting of over **70 events** across **25 venues**

## EXTRA CURRICULAR ACTIVITIES

- **Dramatics** : *Directed, scripted & acted in 15 professional, national & institute level performances in last 3 years*  
- Winner, Mimansa, Rendezvous, a national level Street play competition, among **80** teams held at IIT Delhi (2016)  
- **Runner Ups & Director**, Second **Inter IIT Cultural Meet**; Performed *Uncounted 3.5 Crores* across **23 IITs**(2017)  
- **Panel Member, 1 of 6** selected in Ankahi, IITD; Solitarily led a team of **20 members** under the post **Dramatics Representative**  
*Performed on socio-political issues, sensitised 800+ audience at places including Delhi Haat and Green Park*
- **Retake Entertainment** : *Active member of YouTube channel with 6000+ subscribers & 100k+ viewership* (2015 - Present)  
- **Lead Actor & Director**, web series '*Man vs College*', a set of 3 published videos having viewership statistics of **9000+**  
*Directed, acted and scripted, 3 published projects and 2 ongoing video projects, available for worldwide viewership*
- **Social Endeavours**: Received **Certificate of Appreciation** for making DLA videos for autistic children under **National Trust**  
- Encouraged more than **250 people** to use BHIM & UPI; promoted cashless payments via 'Digitally Friendly Campaign'  
- Assisted in managing '*Ride 4 Accessibility*' a sensitization campaign ran by the Department of Persons with Disabilities (**Gol**)  
*The rally, including about 500+ men & women motorcycle riders was flagged off at India Gate by Shri Prakash Javdekar*



# ADHHAYAN



## ACADEMIC DETAILS

| Year | Degree / Board                                    | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech in Biochemical Engineering & Biotechnology | Indian Institute of Technology, Delhi | 7.342          |
| 2015 | Central Board of Secondary Education              | New Public School, Chandigarh         | 89.8           |
| 2013 | Central Board of Secondary Education              | St. John's High School, Chandigarh    | 9.8            |

## SCHOLASTIC ACHIEVEMENTS

- **National Cyber Olympiad:** Ranked among **Top-100** in the state in a test conducted by the Science Olympiad Foundation (2009)
- **Unified Cyber Olympiad:** Participated in the Cyber Olympiad supervised and organised by Unified Council (2009)
- **International Informatics Olympiad:** Participated in a global level competition organised by Computer Literacy Foundation (2007)
- Project: 50 MGD effluent treatment plant; Designed a plant which can be utilised to treat liquid waste of an **entire city** (2016)
- Earned a percentile score of **99.18** in the language conventions of the CBSE problem solving assessment test (2014)

## INTERNSHIPS

- **NITI AAYOG, New Delhi** (June 2018 - August 2018): *Junior Consultant AB-NHPM, Flagship Scheme by Govt of India*
  - Analysed **National Health Protection Scheme** catering **50cr beneficiaries**; Explored new ways for efficient scheme mobilisation
  - Generated statistical reports on implementation of Village Nutrition Committee, a flagship scheme by the **Prime Minister of India**
  - Formulated academic review of National Health Mission by surveying **170 beneficiaries** in 2 districts & documenting the gaps
  - Remodelled tender to increase eligible Third Party Administrators to maximise ratio of **TPAs per beneficiary** & boost efficiency
- **Intas Pharmaceuticals Ltd., Ahmedabad** (May 2017 - July 2017): *Quality Control Department-Microbiology Division*
  - Performed Microbial Limit Test and Bacterial Endotoxin Test to check the **microbial purity** of pharmaceutical products
  - Analytically evaluated tests controlling microbial count in products as per **International Pharmaceutical Federation**
  - Implemented efficient supply chain layout to carry out efficient laboratory testing to **amplify manufacturing** productivity

## EXTRA CURRICULAR ACTIVITIES

- **Tennis:** Invited by **All India Tennis Association** to be a part of the **Indian Junior Tennis Team representing India Professional Level:Part of the Chandigarh National State team for 4 Straight Years; State participation for 5 Years**
  - Winner, **Gold Medal** (2012), **Silver Medal** (2011) in **National** tournament, All India Tennis Association (2011-12)
  - Winner, **Gold Medal** (2013), **Silver Medal** (2012) in **National Series** tournaments, All India Tennis Association (2012-13)
  - Winner, **Gold Medal** (2014), **Bronze Medal** (2012) in **State Tournaments**, Chandigarh State Education Department (2012-14)
- **National Level:Part of the Institute Tennis team For 4 consecutive years winning 6 medals in National level tournaments**
  - Winner, **Gold Medal** (2016) and **Bronze Medal** (2017) in the **Inter IIT** Sports Championship (2016-17)
  - Winner, **Gold Medal** Sportech18, **Silver Medal** Sportech17, **Bronze Medal** BOSM16 (BITS), **Bronze Medal** Udgash17 (IIT Kanpur)
- **Baseball:** Bagged **Gold Medal** at the **National School Games**, Ministry of Youth Affairs, Govt. of India (2015)
- **Softball:** Secured **Bronze medal** in Senior State Softball Championship, Chandigarh Sports Council (2014)
- **Awards & Honours:** Awarded **Significant Contribution to Sports, Board for Sports Activities, IIT Delhi** (2016)
  - Player of the Tournament, Sportech IIT Delhi, Exceptional performance through the Tournament (2017-18)
  - Best Incoming Sportsperson, IIT Delhi, highest award to a 1st-year student by the Institute for contribution to sports (2015)

## POSITIONS OF RESPONSIBILITY

- **General Secretary, BSA** (April 2018- Present): *Unanimously Elected by 165 students to lead a 3-tier institute level teams*
  - Pioneered **mobile-friendly website** for BSA to strengthen outreach & accessibility; **Initiated** live-scoring & sports blog
  - Pursued **first ever** 'Sports Research Programme' administering sports projects aimed to enhance athlete performance
  - Developed a transparent **Alumni Funds Network** to boost **inflow of resources** to facilitate institute sporting activities
  - Restructured participant eligibility for Inter-Hostel Teams through a **pioneered format** fostering freshers & PG participation
- **Overall Coordinator, Sportech, 2019:** Building and leading a multi-tiered team to execute IIT Delhi's annual sports fest
- **Captain, Institute Lawn Tennis Team** (April 2017 - April 2018): *Led the team into 5 National level tournaments*
  - Instituted practice sessions and matches with State and **National level players** to appraise progress and performance
  - Formalized **sports counselling** in the institute team to improve match temperament & mental strength among players
  - Conceptualised **Lawn Tennis Open** to nurture new talent; Pioneered **Lawn Tennis Ladder** to improve competitiveness
- **Overall Co-ordinator, Informal Events & Social Campaign Sportech,2018** (October 2017 - March 2018): *Led a 4-tier team*
  - Formulated the implementation of 'on and off ground' publicity campaign with a build-up of **21 pre-fest events**
  - Conceptualized the **social campaign '(S)he Can Be You'** to create sensitisation about gender discrimination in sports
  - Remodelled and executed the '**Sportech Weekender**' to enable and ensure exposure to **globally acclaimed sports**
- **Sports Secretary, Aravali House**(April 2017-April 2018):*Led hostel sports contingent with a 5-spot jump in Inter-Hostel GC*
  - Acquired quality equipment by maintaining close liaison with institute authorities; **Renovated** hostel grounds and fields
  - Instituted **first of its kind** 'Know Your Players' social media initiative to ensure athlete recognition & regular publicity



# AISHVI JAIN



## ACADEMIC DETAILS

| Year | Degree / Board                                    | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech in Biochemical Engineering & Biotechnology | Indian Institute of Technology, Delhi | 8.023          |
| 2015 | Madhya Pradesh Board                              | N.S. Singhvi H. S. School             | 92.8%          |
| 2013 | Central Board of Secondary Education              | St. Thomas Sr. Sec. School            | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- **Summer Vacation Studentship:** Awarded £1600 by Biochemical Society, UK for research in Biomolecular sciences ('18)
- **1-2-3-4 Discover & Learn:** Leading a **multi-disciplinary** project on Droplet Microfluidics; funded by IRD, IIT Delhi ('17/'19)
- **Medhavi Vidyarthi Protsahan Yojana:** Awarded Scholarship of **INR 25,000** by **CM, M.P.** for stellar performance in class XIth ('15)
- **Certificate for Academic Excellence:** Awarded excellent academic performance certificate for **5 consecutive years** ('11/'15)
- **Motion Talent Search Examination:** Awarded a Certificate of participation in Talent Search Examination, MTSE ('13)

## INTERNSHIPS

- **University of St Andrews, Scotland, UK :** Effect of Amino acids on HexD kinetic pathway (May'18-July'18)  
*HexD is found in Rheumatoid Arthritis patients, research expected to increase life expectancy of ageing population*
  - Crystallized 15 HexD complex, assembled data from **Diamond Light Source** and solved structure using **CCP4 and coot** programs
  - Purified, over-expressed and analysed kinetics for HexD in *E.coli* using softwares like *Prism, Graphpad; chromatography techniques*
- **International Centre for Genetic Engineering and Biotechnology, New Delhi :** Structural Parasitology (May'17-July'17)
  - Examined Trypanosoma's & animal proteins using Gel filtration (AKTA), Thermal Shift Assays and multichannel spectrophotometer
  - Analysed Malaria Drug Resistance by **Parasitemia and LAS EZ** Software and crystallized protein by Mosquito Program
  - Received **Letter of Recommendation** from internship supervisor for valuable and constructive contribution
- **Indian Road Safety Campaign Internship :** Addressed railroad crossing ATV-43,296 issue (Nov'15–Jan'16)
  - Proposed solution based on independent surveys and analysis; acknowledged by local media houses
  - Convinced government agencies to approve an under-bridge of **7.65 Crore INR** ensuring safety of over **1,25,000** people annually

## POSITIONS OF RESPONSIBILITY

- **House Secretary, Himadri Hostel, IIT Delhi :** (April'18-Present)
  - Elected by 550+ hostel residents to lead a **3-tier team** of **50+** people to manage cultural, sports, mess and maintenance affairs
  - Conceptualized & initiated recreational sessions, revamping gym & mess, festive celebrations, establishment of sports arena
  - Pioneering **online portal** for grievance redressal, database digitalisation, feedbacks & connecting residents to administration
- **Decoration Coordinator, Tryst'18 :** Managed administered infrastructural and logistical needs (Sept'17-Feb'18)
  - Mobilized ground portrayal of Tryst'18; Modeled and executed the decoration inventively, to effectively communicate the theme
  - Shaped a team of **15+** for decoration covering **50 acres** of IIT, incorporating carpentry, electronics and discarded materials
- **Secretary, National Service Scheme (NSS), IIT Delhi :** (May'17–April'18)
  - Led projects on Road Safety, Community Work and Teaching, Palliative care, Old Age Homes, scientific inquisitiveness
  - Conceived a **mentorship program** at Munirka Basti; guided **43** volunteers to achieve **40%** increase in self-sustainability
  - Headed an internship to solve cancer patients issues; directed **32** volunteers for Health camps of **200+** residents
- **Executive, NSS IIT Delhi:** Managed projects on Road Safety, Old Age Home, Toys From Trash and Tree Plantation (May'16–April'17)
  - Initiated a sustainable model *connecting Old Age Home & Orphanage*, established an environmental *eco club* in orphanage
  - Supervised over **20** volunteers to create over **80** models from trash, to teach science concepts to underprivileged kids
- **Representative, Fine Arts and Crafts Club, Himadri Hostel :** (April'16-April'17)
  - Organized **10+** workshops, managed **5** FACC events, led to win **Runner's Up** for BHM stall; achieved **200%** increase in participation
  - Regulated & designed creatives for FACC events publicity with institute decoration for annual cultural fest **Rendezvous 2016**

## EXTRA CURRICULAR ACTIVITIES

- **Awarded** for exceptional leadership and significant contribution to Hostel **Cultural Activities** ('16/'17)
  - Devised plastic bottles as potential pots for saplings in Gardens of Himadri hostel; contributed to **BHM Winner's trophy**
  - **Dramatics:** Participated in Interhostel Mime and streetplay. Contributed in Stageplay Competition'17 to bag **3rd position**
  - **Fine Art And Craft:** *Year long Participation* in events like Mural Painting, Mask Painting, Oil Painting, Claymodelling, Sculpturae
- **Awarded Best NSS Volunteer Trophy** for exceptional contribution in **Social Activities** ('15/'16)
  - Led the iSAFE Team-The safer India; Organized First Responder Training, Message to Masses, Hackathon; **won quarters**
  - **Rotary Club Internship:** Organized **10+ cataract free India** eye checkup camps targeting **800+** people in more than **10** villages
  - Co-organized Annual social Fest Kaizen 2017, which saw participation of over **10** NGOs and more than **25** student bodies
- **Sports:** Active participation in Inter-School & District level **Basket Ball competitions** ('12/'13)
- **Events Coordinator, TRIPP:** Directed *year long* events on transportation and injury prevention under IRSC ('16/'17)
- Member of **Committee For Promotion And Monitoring Of Interaction;** ensuring **anti-ragging** policy enforcement ('17/'19)



# ARNAV KARAN



## ACADEMIC DETAILS

| Year | Degree / Board                                    | Institute                             | GPA / Marks(%)   |
|------|---|---------------------------------------|------------------|
| ---  | B.Tech in Biochemical Engineering & Biotechnology | Indian Institute of Technology, Delhi | 9.067            |
| 2015 | C.B.S.E. Class 12th                               | The Daly College Indore               | 95.6%            |
| 2013 | C.B.S.E. Class 10th                               | The Daly College Indore               | 10 (scale of 10) |

## SCHOLASTIC ACHIEVEMENTS

- **Department Rank 1:** First Rank amongst all the BTech and Dual degree BTech + MTech Students of the Department
- **IIT Delhi Academic Merit Certificate:** Awarded consecutively 4 times in Second and Third Year for being in top 7%
- **Sakura Science Exchange Program Scholarship:** Awarded the Prestigious Scholarship by the Govt. of Japan [2018]
- **Undergraduate Teaching Assistantship:** Awarded TAship for Introduction to Bio. for Eng. taken by 530 Students[2018]
- **Letter of Appreciation:** Minister of MoHRD, Govt. of India commended my exceptional performance in 12th class[2015]

## INTERNSHIPS

- **NITI Aayog, New Delhi** (May, 2018 - July, 2018): Analysis of PMMVY, Flagship Scheme of Government of India
  - Analysed PMMVY, the flagship scheme of Govt. announced by Prime Minister benefitting 51 Lakh women annually
  - Prepared a comprehensive report with critical and cogent analysis sent to the Prime Minister of India's office
  - Performed extensive demographic analysis to select States and districts for organising and conducting field visits
  - Co-organised Workshop on flagship Govt. programs; World Bank, UNICEF and BCG were among the attendees
  - Rated as Outstanding (Highest Rating) Performer by Adviser, NITI Aayog for my contribution during my internship
- **The Energy and Resources Institute (TERI), New Delhi** (May, 2017 - July, 2017) : Rhodopseudomonas palustris
  - Isolation and Incubation of R. palustris; Produces Hydrogen from alternative Carbon sources(like Carbon Monoxide)
  - Developed a computer program in C++ utilised for trimming and processing 16s rRNA sequences for any organism

## PROJECTS

- **Machine Learning: Sparse Matrix Completion (Prof. Jayadeva)** (January, 2018 - May, 2018) : ML Semester Project
  - Built for predicting Antigen Drift in H1N1 Flu Virus. Utilised in the prediction of vaccine for the new species of virus
  - With the help of Singular Value Decomposition (SVD) and Alternating Least Square (ALS) technique to complete the sparse matrix
  - This helped in developing a framework which could be utilised in future which was highly appreciated by Professor
- **Battery Management System (Prof. Amit Gupta)** (September, 2016 - August, 2017): Funded Design Project
  - Used for monitoring voltages and temperatures of Li-ion cells. Cells are explosive and require extensive monitoring
  - Awarded 4,00,000 INR by the Industrial Research and Development (IRD) unit under the Discover and Learn Scheme
  - Modular, Robust and Cost-effective Design; which was presented and appreciated at Formula Student Germany
- **Case Study on Demonetisation (Prof. Reetika Khera)** (January, 2017 - May, 2017) : Economics Course Project
  - Analysed the merits, demerits and impact of Demonetisation after a Quarter of F.Y. of its announcement by Indian Govt
  - Based the study on the various Economic studies and Field visits performed in person to multiple markets in New Delhi

## EXTRA CURRICULAR ACTIVITIES

- **Special Auditing Student, Hiroshima University, Japan** under Inter Linkage Degree Program (ILDP) Start Plus 2018
  - Represented India in this pioneering exchange program between the Government of Japan and Government of India
  - Part of 11 selected students from Premier Indian Universities like IIT-Bombay, BITS-Pilani, IIT-Delhi and IIEST-Shibpur
- Participant in **Formula Student Germany** in 2017 held in famed Hockenheim Ring (venue for Formula 1 German GP)
  - Only non-European team from the entire world to qualify and participate via very competitive qualifying procedure
- **Social Work:** Provided 100 Hours of Service each to National Association for Blind (NAB) Women and HelpAge India

## POSITIONS OF RESPONSIBILITY

- **Convener, Co-curricular and Academic Interaction Council (CAIC)** (March, 2018 - Present) : Class Committee Co-ordinator
  - Unanimously Elected to the highest council for academics and co-curricular activities by the entire quorum of Dept
  - Responsible for raising and resolving issues of the students of Dept. and Co-ordinating with the council and the Dept
  - Organised Student-Teacher Interaction Council meetings attended by many Professors and students of the department
- **Co-ordinator, Sportech** (Oct, 2017 - March, 2018) : Organised the Informal Events for the four day Sports Festival
  - Spearheaded a 2 Tier Team of Activity Heads and Team Heads for organising the Informal Events of Sportech
  - Orchestrated fest and pre-fest events like Fantasy Football League, Match and Movie Screening to build up the campaign
  - Part of a 3 tier Team of 40 people to organise a four day Sports Festival with 20+ Events in the entire campus
- **Electronics Dept. Representative, FSAE** (September, 2016 - August, 2017): Managed Integrated Electronics
  - Headed the Integrated Electronics department of the club, responsible for the key electronic designs and their integration
  - Extensively designed and fabricated Battery Management System and Shutdown Safety circuits of the Electric Vehicle



# ASHWIN GARG

## ACADEMIC DETAILS

| Year | Degree / Board                                    | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech in Biochemical Engineering & Biotechnology | Indian Institute of Technology, Delhi | 7.885          |
| 2014 | CBSE  | D.P.S, R.K Puram                      | 96%            |
| 2012 | CBSE  | S.H.M.D School                        | 9.6            |

## SCHOLASTIC ACHIEVEMENTS

- **Design Innovation Summer Award:** Conferred by Industrial Research and Development Unit, IIT Delhi[2017]
- **International Publication:** 'A Comprehensive Study of Machine Learning Models in Radiogenomics', IJSR[2018]
- **NZISC:** One of the 6 finalist out of 89 teams in the New Zealand-India sustainability challenge organized by TERI [2017]
- **SAT Mathematics** subject test (Level 2): Scored **780/800**, [2013]; **SAT Physics** subject test: Scored **800/800**, [2013]
- **Scholar badge:** Awarded certificate for academic excellence for two consecutive years, D.P.S, R.K Puram [2011-2013]

## PROJECTS

- **Role of exosomes in lung cancer diagnostics (Dr. R.K Elangovan)** [April, 2018-present]
  - Conducted extensive literature review and **maintained lung cancer cell lines** (A549, L132-NCCS)\*and HeLa cell lines
  - Characterised and quantified exosomes using DLS, Transmission electron microscopy, Bradford assay and nanodrop
  - Isolated sub-population of exosomes using magnetic nanoparticles and analyzed its miRNA content using RT-qPCR
- **Classifying disease proteins using PPI network and gene ontology (Dr. Ashish Mishra)** [April,2018- July,2018]
  - Executed data wrangling of the protein-protein interaction and GO terms raw data acquired from BIOGRID and EBI
  - Selected and **extracted feature vectors** from the protein-protein interaction network **using the node2vec algorithm in python**
  - **Trained binary classification models-SVM, logistic regression and neural network** using the learned feature vectors
  - Trained the models with one hot encoded representation of GO terms and **applied K-fold cross-validation** on the models
- **Camera app based assistive technology for visually impaired, DISA (Dr. M Balakrishnan)** [April, 2017-July, 2017]
  - Conducted extensive **need analysis** and **market study** of current applications available in appstore and playstore
  - Designed and successfully tested the proof of concept of the idea on volunteers from Saksham Foundation
  - Co-designed the front end of the **android application in Javascript** and successfully **integrated it with Google Firebase**
- **Kinetic study of gluconic acid batch fermentation, (Dr. Ashish Mishra)**(course project) [April 2018 -May 2018]
  - Conducted extensive literature review of the kinetics of gluconic acid batch fermentation in *Aspergillus niger* from glucose
  - Implemented logistic equation and Leudeking-Piret equation to model substrate consumption and biomass & product formation
  - Minimized the **non-linear least square curve** of the equations to find its parameters and plotted the data in **MATLAB**

## POSITIONS OF RESPONSIBILITY

- **Project Executive, Enactus: Network of business, academic and student leaders unified at creating a sustainable world**
  - **Project Titli:** [Oct 2016- Dec 2017]
    - Co-led a team of 9 to work on improving the menstrual practices and hygiene conditions of rural women across NCR
    - Designed and conducted a need assessment survey of **1471 women** from **14 different urban slums** across NCR
    - Collaborated with **2 NGOs**, conducted **4 awareness sessions** on menstrual hygiene and reached over **250 households**
    - Led a team of 5 undergraduates to engineer a cheap, biodegradable cloth sanitary pad based on human-centric design
  - **Project Arth:**
    - Co-led a team of 8 to work on addressing the sensitive problem of excessive use of wood for cremation in India
    - Co-designed cow dung based logs; a green and religiously suited alternative to wood for use in crematoriums.

## EXTRA CURRICULAR ACTIVITIES

- **International Entrepreneurial Challenge:** *National finalist* in the IEC challenge held at E-Summit, FMS [2018]
- **National business plan competition,** St Stephen's College: *Secured first position* in the competition [2016]
- **Pravah winter SMILE program:** Visited villages in Rajasthan & Uttarakhand to learn about rural life in India [Dec 2015]
- **Hostel Decoration:** Managed the hostel BHM stall and the props for Duo & Group dance [2015]
- **Sports**
  - **All India IPSC Table Tennis Tournament:** **Secured first position** in the under 19 category [2013]
  - **T.T Tournament, D.P.S, R.K Puram:** **Secured second position** in the intra-hostel tournament [2013]
  - **T.T Tournament, S.H.M.D school:** **Secured second position** in the intra-house tournament [2011]
- **Spark, Catalyst club:** As Vice president of the chemistry club coordinated the events organized in the symposium [2013]



# EASH SHARMA



## ACADEMIC DETAILS

| Year | Degree / Board                                    | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech in Biochemical Engineering & Biotechnology | Indian Institute of Technology, Delhi | 7.516          |
| 2015 | MPBSE   | N.A.H.S School, Gwalior               | 87.6%          |
| 2013 | CBSE  | St.Paul's School, Gwalior             | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- Chartered Financial Analyst(CFA) Program Level 1 cleared: Greater than **90 percentile** in 8/10 sections [2018]
- International Publication: 'Comprehensive Study of **Machine Learning** Models in Radiogenomics', IJSR; **I.F.: 7.2** [2018]
- Design Innovation Summer Award(DISA): Conferred by IRD Unit for excellence in research, IIT Delhi [2017]
- IISC Bangalore: Received Certification in the diploma course for Supply Chain & Marketing Management [2017]
- KVPY Scholar: Qualified for a fellowship by DST, GoI and attended the IISC Bangalore National Camp [2014]
- NTSE Scholarship: Amongst the **top 750** students selected nationwide after a 2 tier process by NCERT, GoI [2013]
- CBSE Merit Certificate, AISSE: Awarded for outstanding performance, obtaining perfect scores in all 5 subjects [2013]
- Minor in Business Management: Conferred by DMS, IITD; Successfully completed 12 out of required 21 credits
- National Olympiads: Secured an All India Rank of 38 in IMO'13, SOF; Secured an All India Rank of 197 in NCO'12, SOF

## INTERNSHIPS

- Dept. of Bioinformatics, Cancer Hospital & Research Institute, Gwalior: *R&D Unit* [May, 2018 - July, 2018]
  - Developed a **personalized treatment plan** on an individual basis by proposing a methodology based on **Autoencoder Model**
  - Presented a 3 parameter model which attained an **R-squared > 0.99 fit** for incidence curves of **18 common solid cancers**
  - Achieved a **20% reduction** in the number of erroneous cancer predictions, simultaneously reducing complexity of requisite data
  - Utilized **Akaike Information Criterion** values to validate the accuracy and performance of the proposed distribution

*Received letter of recommendation from the organization for commendable research work as youngest member of the team*
- Zillious Solutions Pvt. Ltd., New Delhi: *Market Research Trainee* [December, 2017]
  - Proposed a price restructuring plan with potential revenue **growth of 12%** by performing market research & competitor analysis
  - Adapted & piloted the product to open **new customer segment**: direct corporates by coordinating with the senior leadership team
  - Analysed the global market scenario to outline **international expansion** strategies based on market potential for next 5 years

*Received letter of recommendation from the Director for exemplary determination and inquisitive approach*
- GoEdTech, New Delhi (Affiliated with Xerox Corporation): *Operations Analyst* [May, 2016 - July, 2016]
  - Achieved a reduction of **10%** in data wrangling time by classifying student database using **SQL** based on company's objectives
  - Accomplished seamless provisioning of studios by reducing the recording costs by **5%** through data management strategies

*Received recommendation for professional conduct and work ethics*

## POSITIONS OF RESPONSIBILITY

- Accommodation Coordinator, TRYST: *Led a 3-tier team* [Sep, 2017 - Feb, 2018]
  - Supervised accommodation for participants by administering a team of **40+** volunteers for 4 days
  - Streamlined the management system by initiating **online pre-registration system** and **24-hour help desks**
  - Achieved a substantial reduction in expenses by managing assets & monetary interactions with multiple vendors
- Dance Club Representative: *Directed 20+ Inter and Intra College performances* [Jan, 2017 - April, 2017]
  - Revamped structure and improved frequency of workshops and practices resulting in a **50% YoY increase** in participation
  - Managed logistics and stage settings along with choreographing sequences resulting in fully measured performances
- Student Mentor : *Ensured a smooth transition for 1st year students* [April, 2017 - April, 2018]
  - Steered participation of freshers in various activities resulting in enhanced interaction and self-awareness
  - Coordinated with and assisted the team for the smooth functioning of the Student Mentorship Orientation

## EXTRA CURRICULAR ACTIVITIES

- Cultural Activities: *Coordinated Inter and Intra-Hostel cultural events*
  - Winner, **First Position, Rendezvous** National Level Choreography Competition [2016]
  - Winner, **Second Position, Mood Indigo** National Level Choreography Competition [2016]
  - Adjudged **exceptional** in Canvas Making Competition based on the abstract involved [2016]
  - Activity Head, Events, Rendezvous: Collaborations with foreign artists and theatre groups [2017]
- Awarded **Outstanding contribution in cultural activities** for significant inputs in FACC & Dance [2018]
- Winner, **Silver Medal**, Inter Hostel Water Polo Competition among 11 competing teams [2015]
- Social Endeavors: *Instrumental roles in different social initiatives and welfare programs*
  - Marathon against drugs, Central Bureau of Narcotics: Volunteer for augmenting awareness of drugs among youth
  - Bloodconnect enlisted donor: Regular donations made in blood camps as well as hospital emergency situations



# HIMANI GAUTAM KAMBALE



## ACADEMIC DETAILS

| Year | Degree / Board                                    | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech in Biochemical Engineering & Biotechnology | Indian Institute of Technology, Delhi | 6.201          |
| 2015 | HSC Maharashtra Board                             | Rajiv Gandhi Academy of E-Learning    | 90.46%         |
| 2013 | SSC Maharashtra Board                             | Sadhana Highschool                    | 89.09%         |

## SCHOLASTIC ACHIEVEMENTS

- Recipient of the prestigious **NTSE Scholarship** award, among the selected top 1000 (2011)

## INDUSTRIAL TRAINING

- Sanfe, All Solutions Innovation** (May, 2018 - July, 2018): *Summer training*

*Completed summer training in All Solutions by contributing passionately towards the **betterment of female hygiene***

- Diligently carried out **beta testing** by visiting public places thereby documenting the client encounter of **120+ women**
- Studied the **perception of the subjects** towards the product taken after by influencing change as per client to request
- Content writing: creatively drafted content for **promotional videos** to emphasize the need of **female urination device**
- Documented report highlighting the **necessity of Sanfe for pregnant women** to make pregnancy a joyful experience

## PROJECTS

- Ambivan (Prof. K R Rao, Dept. of Civil Eng)** (May, 2017 - July, 2017) : Successfully surveyed **150+** stakeholders viz patients, public & private ambulance drivers, paramedics, doctors, general public for a comprehensive need analysis
  - Performed **comparative study of Emergency Service** in different states, countries to get a clear picture of EMS in India
  - Conceptualized **platform connecting clients to extreme rescue vehicle suppliers** increasing outreach of suppliers
  - Fabricated the **well thought upon features** in order to cater the needs of our customers during medical emergencies
  - These include **Real Time Ambulance Tracking, Patient Tracking, Hospital Vacancy, Trained First Responder network**
  - Designed the easy to use **basic app interface** for **public, ambulance drivers** which requires the user's phone number
  - Drafted detailed **funding proposal, project proposal** to secure funding, **MOU** to collaborate with hospitals & suppliers

## TECHNICAL SKILLS

- Tools: Adobe Experience Design CC, Figma**
  - Capability to work with **collaborative UI design tools**, **create user friendly wireframe** of mobile application
  - Competency in using **pen tool** to create engaging UI layouts followed by building **high-fidelity prototypes**

## POSITIONS OF RESPONSIBILITY

- Executive, Indian Road Safety Campaign, Project Ambivan** (July, 2017 - April, 2018) :
  - As an executive in project Ambivan my responsibilities chiefly included managing operation interns by **assigning task, defining task timeline, assessing work and making changes by inviting recommendations** from the interns itself
  - Helped operations, technical groups arrange guaranteeing a smooth work flow keeping venture **solid on the two fronts**
  - Detailed the present work status regularly to the project leader followed by **planning future prospects and strategy**
  - Consulted **AIIMS Trauma Surgeons and CATS Delhi Operations Head** for suggestions, proposition on technicalities
  - Extensively worked on range of parameters that can be provided to customers to help them choose the best service
  - Modelled the platform to **help small ambulance suppliers legitimise their business** by reaching more customers

*Bagged a position among **Top 10 Start-ups** award at the hands of Hon. Mr. Jayant Sinha on Alumni Day in IIT Delhi*
- Decoration Activity Head, Literati** (Aug, 2017 - Sep, 2017) :
  - Prolifically worked as an Activity Head in the fest of BSP IIT Delhi assisting in decoration on the theme *Cerca Trova*

## EXTRA CURRICULAR ACTIVITIES

- Athletics**
  - Bagged **3rd position** in inter hostel 1500m race (Jan, 2015)
  - Secured **3rd position** in **Athletics Championship** 800m race (Jan, 2016)
- Inter hostel Group Dance**
  - Actively contributed in group dance securing **3rd position** for the hostel (Jan, 2015)
  - Inter Hostel Group Dance: Contributed to the hostel team by participating in 3 sequences (Jan, 2016)
- Notable Participation**
  - Inter hostel Street Play: Enthusiastic participation in the event with hostel team
  - Anuvaad : Successfully **improved ranking of hostel** with my team in the event organised by Hindi Samiti
- Social Initiatives**: Guided and counselled economically weaker students in Munirka Teaching Project



# JEETU SINGH

## ACADEMIC DETAILS

| Year | Degree / Board                                    | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech in Biochemical Engineering & Biotechnology | Indian Institute of Technology, Delhi | 7.185          |
| 2015 | CBSE  | Jawahar Navodaya Vidyalaya, Pune      | 92.6           |
| 2013 | CBSE  | JNV , Allahabad                       | CGPA 10/10     |

## SCHOLASTIC ACHIEVEMENTS

- Jawahar Navodaya Vidyalaya (JNV) Examination:** Qualified to get **100% fee rebate** from class 6th to 12th [2008]
- National Children's Science Congress:** Represented school in **Nodal level Science Project Exhibition** -Selected for **District Level Science Project Exhibition** among the top schools of Allahabad District [2009]
- Dakshana Scholor:** Selected in **top 1%** of JNV students from all over India and accepted as Dakshana Scholar -Awarded with **Scholarship** and Achieved **100% Fee Rebate** for class XI-XII provided by Dakshana foundation [2013]
- NTSE**(top 1000 out of 5,00,000 candidates):Qualified 1st level and selected in 2nd level of examination [2011]

## INTERNSHIPS

- Product Development Intern, Careers360: Project Knock Out** [May, 2018-July, 2018]
  - Worked with **Product Operations Team**; **Created and Curated Data and Content** for creation of **AI** product
  - Helped team as a subject expert to make the hard concepts facile and make it available for more than **1000** students
  - Project Knockout helps many students to improve their examination skills for competitive exams in online environment

## TECHNICAL SKILLS

- Programming Language:** C , C++ , Python| **Software:** MATLAB, LATEX, Autodesk Inventor , Microsoft Excel and Word
- Relevant Courses:** Data Structure and Algorithm, Modelling and Simulation of Bio-process, Linear Algebra

## EXTRA CURRICULAR ACTIVITIES

- Awards :**
  - Winner, **Gold Medal** with Institute **Hockey** Team at **51st Inter IIT Sports Meet, Kanpur** [2016]
  - Winner, **Gold Medal** with Institute **Hockey** Team at **Sportech**, IIT Delhi's Annual Sports festival [2018]
  - Winner, **Gold Medal** with Institute **Hockey** Team at **Sangram**, IIT Roorkee's Annual Sports festival [2018]
  - Winner, **Silver Medal** with Institute **Hockey** Team at **BOSM**, Bits Pilani's Annual Sports festival, [2017]
  - Winner, **Bronze Medal** with Institute **Hockey** Team at **Udghosh**, IIT Kanpur's Annual Sports festival [2017]
  - Awarded with the **Best Team of the Year** by BSA for outstanding performance in sports throughout the year [2017]
  - Received a special recognition for **Outstanding Contribution to Sports** from Aravali Hostel, IIT Delhi , [2018]
- Sports:** Represented the school and participated in multiple sports across India in many tournaments
  - Cluster Level Table Tennis competition ; included more than **20 Schools** in Varanasi cluster in U-17 category [2012]
  - Regional level Hockey Meet; Gathering of more than **250 players** form all over UP and Uttarakhand in U-17 category
  - Regional level Cricket Meet in Hyderabad region with participation of more than **300 players** in U-17 category [2011]
- Poem Writing:** Secured 1st position in Hindi Poem Writing Competition among senior section in School [2011]
- Joint Dakshana Selection Test(JDST):** Successfully monitored and conducted Joint Dakshana Selection Test [2016]

## POSITIONS OF RESPONSIBILITY

- Institute Captain, Hockey , BSA** [March ,2018 - Present] : *Leading a team of 16 players with 6 newcomers*
  - Organized matches trials to identify talented individuals; achieved **4 fold** increase in participation through trials
  - Tailored practice matches with **top 7 teams** in Delhi including Army team for team building and grooming of new talent
  - Instrumental in initiating much needed repair work for Hockey Filed & construction of nets around the field
- Institute Vice-Captain, Hockey , BSA** [March ,2017 - March, 2018] : *Successfully managed and led a team of 16*
  - Organized a week long talent search to scout and mentor talented individuals; inducted **8 promising players** to team
  - Successfully led very young team to secure **4th** position in the **52nd Inter IIT Sports Meet**, held at **Madras** [2017]
  - Coordinated with **11 Hostel Sports Secretaries** to smoothly organize **Inter Hostel Hockey Championship** [2018]
- Hostel Captain, Hockey ,BSA** (April ,2016 - March, 2017) :Successfully managed Hostel team and led it in field
  - Honored with prestigious **Institute Colors** award for outstanding performance and contribution to sports [2017]
  - Created indomitable sports spirit in hostel by motivating 7 promising players and organizing regular practice sessions



# KUMAR KOMALESHWARI RANI NARES



## ACADEMIC DETAILS

| Year | Degree / Board                                    | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech in Biochemical Engineering & Biotechnology | Indian Institute of Technology, Delhi | 6.367          |
| 2014 | Maharashtra State Board                           | MHJ Nagpur, Maharashtra               | 81.08/100      |
| 2012 | C.B.S.E   | Kendriya Vidyalaya, Maharashtra       | 9.2/10         |

## SCHOLASTIC ACHIEVEMENTS

- **IGEM IIT Delhi:** Silver medal in IGEM 2016 competition held in Massachusetts Institute of technology, Boston.
- Awarded **BUDHWANTI DONAR SCHOLARSHIP** for merit performance in JEE exam.

## INTERNSHIPS

- **Centre for Experimental Medicine, Queen's University Belfast, UK:** (Apr 2018, Jul 2018)  
*"Experimenting and Studying Alzheimer's Patient's Brain and Eye"*  
Under the supervision of Dr Imre Lengyel (Senior Lecturer (QUB) and Honorary Senior Lecturer (UCL))  
-Identified and critically appraised the labelling with protein specific antibodies in literature for Alzheimer's disease tissue  
-Compared labelling with antibodies against different epitope-specific antibodies and presented the results of the project
- **TITLI Enactus, IIT Delhi-ChetnaLaya NGO:** (Dec 2016, Feb 2017)  
*"Women's Menstrual Hygiene"* Under the supervision of Prof. M Balakrishnan (Computer science engineering, IIT Delhi)  
-Surveyed 1500 women on Menstrual Hygiene in 14 underdeveloped Delhi communities along with the team  
- Analyzed the unacknowledged problems regarding menstrual hygiene faced by women's of Delhi Urban Slums

## TECHNICAL SKILLS

- Softwares: **Matlab, Autodesk Inventor, Modeler** Programming Languages: **C, C++**

## PROJECTS

- **Constructing mutant genomic library of Rhodococcus bacteria:** *Preeti Shrivastava (IIT,Delhi)* (Dec 2017-Apr 2018)  
-Implemented Random mutagenesis to know the genes coding for Switch Proteins useful in **Identifying the Drug target**  
-Constructed and screened, mutant genomic library of 500 Bacterial samples  
-Prepared Replicates of all 500 mutant cells as a safe storage which can be retrieved usefully in the later study
- **Pediatrics Vein Accessing Approach:** (Jan 2017- Jul 2017)  
*Prof Kalaynsundram (CBD, IIT Delhi) and Dr. Bagga (Head of Pediatric Department, Sadarjung Hospital, New Delhi)*  
-Enhanced the quality of NIR Spectroscopy technique images using **VEIN IMAGE PROCESSING MATLAB** script  
-Presented 3D CAD prototype, with its detailed Failure Mode and Effects Analysis
- **HOT FM Giant Jamboree Annual Event 2016** IGEM IIT Delhi (Jan 2016, Oct 2016)  
-Contributed to IGEM IIT Delhi team, which competed against other teams at **MIT, Boston** and WON Silver Medal\*
- Published online survey form and analyzed survey database of public knowledge and perspective on synthetic biology
- **Mathematical modelling and process optimization of continuous 5-stage bioreactor:** *Ashish Mishra* (Apr 2018)  
-Optimized the process with **MATLAB** and replicated the optimized results using the respective research paper data
- **Correlation between Big Five Personality Factors with Stress Response and Coping:** *Varsha Singh* (Feb-Apr 2017)  
-Researched on IIT undergraduates correlating their Personality, Stress and Coping mechanism by conducting a test  
-Surveyed and analyzed the data employing linear models by taking scores on HADS and SVS test
- **Detailed Investigation of 50 MGD Common Effluent Treatment Plant** Prof. Shaikh Z. Ahammad (Oct 2016)  
-Presented Overall Mass energy Balance of Preliminary, primary, secondary and tertiary water treatment plants
- **Nugget about Yamuna River Pollution: Design Thinking Project** P.V.M Rao (MED, IITD) (Dec 2016)  
-Presented need analysis and provided three major solutions including waste-water treatment  
-Examined the Field, interviewed local citizen and experienced their daily life entwined around Yamuna water

## EXTRA CURRICULAR ACTIVITIES

- Design project, **ART FROM JUNK** Supervision of professional artist **GOPAL NAMJOSHI** (Aug 2017)  
-Awarded by IIT Delhi director for the contribution in Designing Institute's Prime ART INSTALLATION
- **Activity Head in Hospitality team, Rendezvous 16** (Oct 2016)  
-Entertained and Organized the hostel accommodation for all the RDV participants
- Competed & awarded **3rd Position** in ~Institute STAGE PLAY COMPETITION (Oct 2016)
- **Activity head** in the Creative and Decoration team of **Literati** (Sep 2016)

## POSITIONS OF RESPONSIBILITY

- Coordinator, Creative and Decoration team, Speranza: (Sep 2017)



# LAMGHARE ADITYA RAJU



## ACADEMIC DETAILS

| Year | Degree / Board                                    | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech in Biochemical Engineering & Biotechnology | Indian Institute of Technology, Delhi | 6.438          |
| 2015 | Maharashtra board HSC                             | Dr. Ambedkar Junior College           | 85.6 %         |
| 2013 | CBSE  | St. Xaviers High School               | 10 CGPA        |

## SCHOLASTIC ACHIEVEMENTS

- **Design Innovation Summer Award:** Conferred by Industrial Research and Development Unit, IIT Delhi[2017]
- **MIT-IIT Make In India Boot Camp:** Selected and participated in a month long boot camp on *innovation and entrepreneurship*  
- One amongst 40 students selected from MIT, Asia School of Business, Indian Institute of Technology and other universities

## PROJECTS

- **DISA project (Dr. Shilpi Sharma)** [May, 2017 - July, 2017]
  - Worked on a technique to **increase** the plant response to a biofertilizer using *Bioencapsulation of microbes*
  - **Compared** the effects of various additives to the media on the **shelf life, viability and dissolvability** of the beads
- **Adaptive Knee Brace (Dr. Dinesh Kalyansundaram)** [January, 2018 - May, 2018]
  - Designed an **adaptive knee brace** for **Anterior Cruciate Ligament reconstruction** surgeries as BML740 (biomedical devices)
    - It reduces risks of repeating torn ACL injuries, especially in those who play active sports like soccer, rugby and basketball
- **Amoxicillin Production Plant (Dr. Zia Shaikh)** [July, 2016 - November, 2016]
  - Analysed the upstream and downstream processes involved in the *production of Amoxicillin* in BBL133 course
  - Performed mass and energy balances to calculate the substrate requirements and optimized production costs
- **Improved Cannula for liposuction (Dr. Srinivasan Venkatraman)** [June, 2018 - Present]
  - Working on a **medical device** in association with AIIMS Trauma Center that will significantly reduce cognitive load on the doctor during **autologous fat transfer or grafting surgeries**

## POSITIONS OF RESPONSIBILITY

- **Core Team Member, Project Head, Enactus IIT Delhi** [July, 2017- December, 2017]
  - Led a **team of 15** for project Titli, an **entrepreneurial** and **social innovation** driven project for improving menstrual practices and hygiene conditions of rural and urban poor women across Delhi-NCR, **impacting 2000+ lives**
  - Set up a micro-enterprise producing **1000+** low-cost cloth sanitary napkins per month at Kapashera; in collaboration with Samriddhi, NGO run by **Cargill, India**
  - Established successful collaborations with 3 NGOs across NCR ensuring strong distribution network of Sanitary napkins
  - Earned extensive coverage in Delhi Times and other e-news platforms
- **Project Executive, Enactus IIT Delhi** [February, 2016- May, 2017]
  - Successfully planned, conducted and analyzed a survey of **1471** women from 14 urban slums across NCR to study awareness of menstrual hygiene and market need assessment
  - Developed biodegradable cloth sanitary napkins; price **reduced by 50%**; by conducting rigorous lab testing techniques
  - Designed Interactive Awareness Module and conducted **20 awareness sessions** ; successfully over **250** households

## EXTRA CURRICULAR ACTIVITIES

- **NSS IIT Delhi** [May.2016- April,2017]
  - Awarded **Best volunteer** for the academic year of 2016-17 for work at **Kat Katha**, an NGO working with sex workers
  - Organized a health camp for them and summer activities to inculcate interest towards science and maths in children
  - Set up a small business run by sex workers that now supplies midday meals to schools run by **PVR Nest** (CSR, PVR Ltd)
- **IRD Student Start-up Action, a program run by Ministry of HRD, India** [2017]
  - Awarded **Rs. 2 lakhs** per annum and incubation by IIT Delhi, for project Titli, under Enactus IIT Delhi
- **Eureka, IIT Bombay** [2017]
  - Business plan developer and finalist of the Social track at Asia's largest Business Model Competition among 10,000 participating teams across India, held at IIT Bombay
- **Daan Utsav Challenge** [2017]
  - 2nd Runner-up among 50 participating teams across India and won a cash prize of **Rs. 50,000 /-**
- **Social Innovation Challenge, Tryst 2017, IIT Delhi** [2017]
  - Presented an innovative idea along with proof-of-concept for a technology that can improve the experience of **visually blinds on the internet**. We were judged **second runners-up**. (Link to the concept video: <https://youtu.be/j40vt2-RWuA>)
- **Enactus National Competition** [2016]
  - 1st Runner-up among 98 participating teams all over India



# MALLIKA SINGLA



## ACADEMIC DETAILS

| Year | Degree / Board                                    | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech in Biochemical Engineering & Biotechnology | Indian Institute of Technology, Delhi | 8.966          |
| 2015 | CBSE  | Loreto Convent School, Delhi          | 95.2%          |
| 2013 | CBSE  | Loreto Convent School, Delhi          | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- Cargill Global Scholarship:** Awarded amongst **1 in 60 recipients globally** for exemplary academic & leadership skills
  - Represented India in Global Seminar held in Minneapolis, USA & underwent **2 years** of leadership grooming (2017-18)
- Department Rank 3:** Achieved among final year undergraduates, Dept. of Biochemical Engineering & Biotechnology (2018)
- IITD Semester Merit Award:** Conferred scholarship **4 times** for ranking among **top 7% students** in the department (2016-18)
- Undergraduate Teaching Assistant:** Selected for semester-long teaching assistantship for Introductory Biology for Engg. (2018)
- Indian Naval Scholarship:** Awarded for **3 consecutive years** for meritorious and outstanding academic performance (2015-18)

## INTERNSHIPS

- Procter & Gamble, Mumbai** (May, 2018 - July, 2018) : *IT Function*
  - CRM platform for wholesalers: Built **one-stop-solution** to provide access to sales data, loyalty coupons & to address grievances
    - Piloted application in Chennai with **175+ wholesalers** after conducting **user acceptance testing** with Sales & Distribution teams
  - Business Intelligence solution: Developed prototype to determine under-performing retailers in India for P&G Sales Heads
    - Instituted prototype for Sales & Consumer/Market Knowledge teams to **integrate solution** with regular business processes
- Technical University of Denmark, Lyngby, Denmark** (May, 2017 - July, 2017) : *Granted scholarship for internship*
  - Developed kinetic model to analyze concentration of CH3Cl during gasification to **resolve industrial emission** issues
  - Conducted **gasification simulations** (using *CHEMKIN*) to show coherence of novel kinetic model with experimental data

**First Authored** 'Ab initio calculations of thermal conversion of Methyl Chloride', 2018, Journal: *Physical Chemistry Chemical Physics*

## EXTRA CURRICULAR ACTIVITIES

- Debating, Journalism & Creative Writing:** Hostel Debating Representative (2016-17), ensured hostel's participation in all events
  - Breaking Adjudicator**, National Level Debate Tournament, IITPD, IIT Delhi; Broke into quarterfinals as a **fresher** (2016)
  - Second Runners-up**, National Level Parliamentary Debate Tournament, QED, hosted by **BITS Pilani** (2017)
  - Second Runners-up**, Institute Level Intra-IIT British Parliamentary Debate Tournament (2017)
  - Winner**, Inter Hostel BSP Trophy, Himadri Hostel; Contributed as **Journalist, BSP** throughout the year (2016-17)
  - Winner**, British High Commission Trophy, Himadri Hostel; Contributed as Hostel Debating Representative (2016-17)
  - Runners-Up**, Inter-Hostel Magazine Making Competition, *Gazettale*, Board for Student Publications (2017)
- Basketball:** Member of Inter-IIT contingent for **4 consecutive years** & represented IIT Delhi at national-level tournaments
  - Winner, Gold Medal** at National Level Sports Tournament, Gladius, All India Institute of Medical Sciences, Delhi (2017)
  - Winner, Gold Medal** at IIT Delhi's National Level Annual Sports Championship, **InterIIT-Sportech** (2016)
  - Winner, Silver Medal** at IIT Delhi's National Level Annual Sports Championship, **Sportech** (2018)
  - Winner, Bronze Medal** at IIT Delhi's National Level Annual Sports Championship, **Sportech** (2017)
  - Semi-Finalist**, Inter IIT Sports Meet, IIT Kanpur (2016) ; Participation, Inter-IIT Sports Meet, IIT Madras (2017) (2016-17)
- IT Business Challenge, Procter & Gamble:** Business case study competition to drive innovation through technology (2017)
  - National Winner**, proposed portfolio prioritization for 6 projects on supply chain optimization by analyzing risk & value creation

## POSITIONS OF RESPONSIBILITY

- Chief Editor, Board for Student Publications** (Apr, 2017 - Mar, 2018): Led a team of 18 journalists from 13 hostels
  - Supervised **2 magazines** & distributed **1000+ copies** each, initiated **3 creative series** & published **journalistic articles**
  - Pioneered *Bittersweet*, online portal to recognize creative talent; Launched **Instagram Handle** & attained 400+ followers
  - Collaborated with *Spic Macay* to host keynote speech by Dr. Karan Singh, **ex-Governor of J&K**, witnessing faculty participation

Awarded '**Significant Contribution to BSP (2017-18)**' for dedicated efforts to increase the penetration & impact of the Board
- Coordinator, Social Campaign, Rendezvous** (Apr, 2018 - Oct, 2018): Leading a three tier team of 20 Activity Heads
  - Conceptualized **social theme** 'Wajood: Embrace Oneself' to promote self-acceptability & break societal stereotyping
  - Organized **10+ nation-wide** campaigns & ensured **increase in scale** of social campaign by collaborating with NGOs & MNCs
- Institute Captain, Basketball, Board for Sports Activities** (Apr, 2018 - present): Leading 11 players in National Tournaments
  - Led process of appointment of **new coach** to ensure proper technical training, skill development & fitness of all team members
  - Initiated regular **matches with top teams in Delhi** to foster competitive match temperament, team bonding and team building
- Coordinator, Informal Events & Social Campaign, Sportech** (Dec, 2017 - Mar, 2018): Leading three tier team of 20 executives
  - Publicized '(S)he Can Be You' to **spread awareness** about lack of opportunities and gender discrimination in sports
  - Associated with *Tryst '18* & *eDC* and organized **15+ events** to witness participation of alumni, prominent entrepreneurs & students



# PAHADE ASMITA KAMALKUMAR



## ACADEMIC DETAILS

| Year | Degree / Board                                    | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech in Biochemical Engineering & Biotechnology | Indian Institute of Technology, Delhi | 7.887          |
| 2015 | HSC   | S.B. Jr. Science College, Aurangabad  | 92.15          |
| 2013 | ICSE  | Cambridge School, Aurangabad          | 94.2           |

## SCHOLASTIC ACHIEVEMENTS

- Publication:** Pahade A et al. 'Comparison of debt market structure of India, USA and South Korea', accepted in IJSR (2018)
- Maharashtra Talent Search Examination:** Awarded certificate for meritorious performance by CTSE, NWC (2012)
- International Olympiad of Mathematics:** Secured **state rank 32** in the three tier examination conducted by MOF (2009)
- Certificate of Accomplishment:** Awarded for exemplary performance in XII Board examination by P.U.J.C (2015)
- Certificate for Academic Excellence:** Awarded for 10 years of outstanding performance and prominent achievements (2013)

## INTERNSHIPS

- Wockhardt Research Centre, Aurangabad** (May, 2017 - July, 2017): *Analysis of Bio-similar Development*
  - Identified major **bottlenecks** in data collection by DSC and **optimized** critical parameters for performance enhancement
  - Accomplished **qualitative similarity** with the innovator product by an extensive structural and functional analysis
  - Validated** the therapeutic bio-similar product by forced degradation studies and impurity profiling using HPLC
  - Devised a framework to meet **FDA** requirements for **market application** of the proposed Bio-similar product
- Awarded '**Letter of Recommendation**' by Manager, Analytics department for delivering commendable results
- ICGEB, New Delhi** (May, 2018 - July, 2018): *Analysis of functions of key parasitic proteins*
  - Identified effective drugs by determining **inhibition efficiency** and principal **kinetic parameters** of **12 drug** compounds
  - Revamped protein purification process of 5 KRS to obtain **high purity** proteins; determined **stability** by 'Thermal shift assay'
  - Devised **cloning** and **expression strategy** for a pivotal enzyme *KRS* of three tropical disease causing parasites
- Awarded '**Letter of Recommendation**' from group leader for exemplary performance and significant contribution

## POSITIONS OF RESPONSIBILITY

- Events Coordinator, Rendezvous** (November, 2017 - Present): *Led a 3-tier team of 150 organisers to execute 100+ events*
  - Achieved **20% increase** in number of events by incorporating new venues and revamping event distribution strategies
  - Reduced cost** per event of professional performances by introducing ethnic cultural acts over conventional artists
  - Pioneered **Informal Gaming Arena**, featuring round-the-clock events to engross crowd, achieving an increased turnout
  - Conceptualized an offline comprehensive pre-fest strategy '**Mini RDV**' with youth engaging events to boost outreach
- Hostel Cultural Secretary, BRCA** (April, 2017 - March, 2018) : *Led a 2-tier team of 10 representatives*
  - Unprecedented **9 podium finishes** (200% YoY increase); headed the **inception edition** of hostel magazine
  - Pioneered a three-day **interactive hostel festival** 'Euphoria', augmenting the domain of BRCA to supporting staff
  - Introduced '**Hostel Karaoke Nights**', which were later incorporated into Informal Events structure at institute level
  - Hostel Dance Representative** (April, 2016 - March, 2017) : **200% YoY increase in hostel participation in IDP 2017**
    - Successfully organised 4 events at institute level with **100+** participants; conducted several dance workshops for freshmen
- Team Head, BloodConnect IITD** (April, 2017 - February, 2018) : *India's largest youth run NGO*
  - Led a 2 tier team of 25 members to ideate 6 Blood Donation Camps with **600+ donations** and 3 awareness sessions
  - Collaborated** with Rendezvous'17 & Sportech'18 to conduct multiple social campaigns for targeted youth outreach

## EXTRA CURRICULAR ACTIVITIES

- Cultural Activities:** Certified in Indian classical dance form '**Bharatnatyam**' for five years
  - National level: Secured **multiple** podium finishes in National level dance competitions
    - Runners up**, Western Group Dance Competition, Rendezvous, the largest cultural festival of North India (2017)
    - 2nd Runner up**, Western Group Dance Competition, Rendezvous, the largest cultural festival of North India (2016)
  - Institute Level: Directed, choreographed and participated in **9** Inter hostel competitions to bag **6 podium finishes**
    - Runners up**, Inter hostel Duo+ Dance Competition; **2nd Runner up**, Inter hostel Duo+ Dance Competition (2016, 2017)
    - 2nd Runner up**, Inter hostel Group Dance Competition; **2nd Runner up**, Inter hostel Solo Dance Competition (2016, 2016)
    - 2nd Runner up**, Inter hostel Dance video competition; **Choreographed** and participated in IDP for 2 years (2018, 2016-17)
    - 2nd Runner up**, Inter hostel Stage play; acted, Street play to propagate message 'Sex-a Taboo'(2017,2015)
- Awarded '**Performer of BRCA**' and '**Significant Contribution**' to cultural activities for co-curricular excellence (2018)
- Social Endeavours:** Contributed to several social welfare and development projects
  - Social Activity Head, RDV:** Spread awareness on *Thalassemia* by directing flash-mobs in youth-centric zones of Delhi
  - Munirka Teaching Project:** Tutored slum kids between age 3 to 11 years; ensured their enrollment in primary schools
  - HelpAge India:** Raised funds for Agecare programs and **Senior Care Services** for disadvantaged elderly citizens



# PIYUSH KUMAR



## ACADEMIC DETAILS

| Year | Degree / Board                                    | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech in Biochemical Engineering & Biotechnology | Indian Institute of Technology, Delhi | 7.975          |
| 2014 | CBSE  | JNV,RANGAREDDY                        | 471(94.2%)     |
| 2012 | CBSE  | JNV,SITAMARHI                         | 10             |

## COURSES DONE

Intro. To Computer Science, Intro. To Electrical Engg., Calculus, Profe. Ethics & Social Resp., Introduction To Engineering, Language & Writing Skill, Electromagnetic Waves&qua.mec., Physics Laboratory, Engineering Mechanics, Introduction To Chemistry, Chemistry Laboratory, Engg. Visualization & Comm., Product Realization By Manf., Linear Algebra & Diffe. Equa., Profe. Ethics &social Resp.-2, Language & Writing Skill-2, Intr.to Material Sc. & Engg., Principles Of Biochemistry, General Microbiology, Mass & Energy Balances In Bio., Introduction To Biochem. Engg., Transport Phenomena, Nss, Intro. To Biology For Engineer, Chemical Reaction Engg I, Fluid Mechs. For Chem. Enginee, Heat Transfer For Chemical Eng, Environmental Science, Introduction To The Sociology Of India, Differential Equations, Molecular Biology & Genetics, Bioprocess Engineering, Bioprocess Engineering Lab, Mass Transfer I, Process Dynamics And Control, Chemical Engineering Lab I, Environment; Development And Society, High-dimensional Biology, Environmental Biotechnology, Bioprocess Technology, Fluid Solid Systems, Enzyme Science And Engineering, Bioinformatics, Membrane Applications In Bio., Chemical Engineering Lab - II, Indian Economic Problems And Policies, Minor Design Project - I, Seminar Course - III

## QUALIFYING EXAMS

- Joint Entrance Examination (JEE) Advanced Rank: 3084 (GE)
- Joint Entrance Examination (JEE) Mains Rank: 3319

## SCHOLASTIC ACHIEVEMENTS

- STATEWISE TOP 1% IN ANDHRA PRADESH IN NATIONAL STANDARD EXAMINATION IN PHYSICS(NSEP-2013):** NSEP is conducted at higher secondary level by INDIAN ASSOCIATION OF PHYSICS TEACHERS.I was awarded the certificate of merit for being placed in statewise top 1% of the candidate enrolled in Andhra Pradesh.

## PROJECTS

- CONTENT DEVELOPMENT FOR UNDERGRADUATE LAB COURSE CLP 301 ON FLUIDS MECHANICS (Dr.Vikram Singh) (May, 2018 - July, 2018) :**
  - Its a third year undergraduate lab course for chemical engineering and biochemical engineering students.
  - The content development involved revising contents of experiments using LaTEX with quality theory and schematics.The section concerned to me was fluid mechanics
- DESIGNED A 2 TONNES PER DAY AMOXICILLIN PRODUCTION PLANT (Dr. Shaikh Ziauddin Ahammad) (October, 2016 - November, 2016) :**
  - Designed a production plant to produce 2 tonnes per day amoxicillin
  - Performed mass balance to calculate the amount of substrates required in each step of production .
  - Performed energy balance to calculate the energy required in each step of process.
  -
- CONSTRUCTION OF INDUCIBLE GENE EXPRESSION VECTORS FOR ZYMOMONAS MOBILIS (Dr. Preeti Srivastava) (July, 2018 - on going) :**

## TECHNICAL SKILLS

- C
- ADVANCED MICROSOFT OFFICE
- AUTODESK INVENTOR
- IMOVIES VIDEO EDITING

## EXTRA CURRICULAR ACTIVITIES

- As a part of NEN 201 , I volunteered for JEE ENTRANCE EXAM COACHING CAMP 2018 conducted at Paukhal, Pauri Garhwal, Uttarakhand from 25th May 2018 to 10 June,2018. The camp was conducted by HIMALAYAN CHIPKO FOUNDATION .



# RAKESH KUMAR SUKHANI



## ACADEMIC DETAILS

| Year | Degree / Board                                    | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech in Biochemical Engineering & Biotechnology | Indian Institute of Technology, Delhi | 7.61           |
| 2014 | CBSE  | Vivekanand School                     | 89%            |
| 2012 | CBSE  | Vivekanand School                     | 9.2/10         |

## QUALIFYING EXAMS

- Joint Entrance Examination (JEE) Advanced Rank: 2915 (GE)

## COURSES DONE

Intro. To Computer Science, Calculus, Medical Device Design, Inclusive Innovation: Theory And Practice

## INTERNSHIPS

**Merchandiser Assistant**, Starlight Hosiery Mills Pvt. Ltd. (Jun'17 - Jul'17)

- Managed **day to day production** tracking (including **Fabric status**) and kept track of **production performance**.
- Collaborated with Design team on **sample development** and **bulk order placement** of knit menswear Garments via liaison with **5 factories** on Production Schedule.
- Analysed **bestselling price points** of top products with Seasonal Apparel lines, and presented **sales forecasts**.
- Managed the process of **forecasting sales, trends and profits** and assisted in preparation of all management forum.
- Maximized** the profitability of one critical product line (Men's Polo T-Shirts).
- Prepared and tabulated data for business analysis i.e. **performance tracker, flow analysis and business reviews**.

## PROJECTS

- Manual wheelchair Design (Inclusive Innovation)** Prof. PVM Rao (Jul'17 : Dec'17 - Course Project)  
Conceptualized wheelchair design modifications to enable smoother mobility of the wheelchair bound on smaller obstacles.  
-Proposed a **minimalist** design solution (**an external mechanical extension**) compatible with all existing wheelchairs.  
-Collaborated with Dr. Nekram Upadhyay (Head, Dept. of Assistive Technologies) at Indian Spinal Injuries Center.  
-Interacted with wheelchair bound students on the campus for problem identification and feedback on possible solutions.  
-Optimized desirability, viability and feasibility of design by implementing user-centered brainstorming techniques.  
- Also proposed **Customization of railing** along with the frames to **reduce jerks** suffered by the patient on wheelchair.
- Portable medical device for detection of Cholera** Prof. Dinesh Kalyansundaram (Jan'17 : May'17 - Course Project)  
-Developed a device to qualitatively test for *Vibrio cholerae* in water. (**Conventional** method are culture based\*)  
-Enabled **on-field testing** without the use of any bulky equipment (All **conventional** methods are **Lab based**).  
- Analysed various **microbial techniques** and narrowed down to Loop Mediated Isothermal Amplification (**LAMP**).  
- Collaborated with students from different disciplines to procure elements to ensure **portability** of the device.
- Bioreactor for production of 1000 tonnes/year milk powder** Prof. Zia Sheikh (Sep'16 : Nov'16 - Course Project)  
- Conceptualized **plant specification** for major equipment design and also designed the process flow diagram.  
-Calculated the **raw material and utilities requirement** for the production plant using **Mass and Energy balance**.
- Mutant genomic library construction of Rhodococcus bacteria** Prof. Preeti Srivastava (Dec'17 : Present)  
Identifying genes producing **Switch Proteins** responsible for its **morphology change** that can be used as **drug target**  
-Created and screened mutant genomic library of **500** Rhodococcus Bacteria.  
- Mutants showed **morphological change** indicating Transposon is hampering with the production of switch protein.  
-Introduced **Kanamycin** resistance so that only **cells of interest** exhibited growth and thus required screening.  
- Prepared **replicates** of all **500** mutant cells to **preserve** them for future use or in case of contamination.

## TECHNICAL SKILLS

- Proficient in Adobe Photoshop, MS Office, MATLAB, Autodesk Inventor, PYMOL, IMAGEj, ANSYS and iMOVIE
- Programming Language : C,C++

## EXTRA CURRICULAR ACTIVITIES

- Secured First position in the event "A Game has no name" organised by Arthagya - Economics Club of ICW (DU) (2017)

## POSITIONS OF RESPONSIBILITY

- B.Tech Representative for UG batch of 2019** (July, 2017 - May, 2018) :  
-Bridged the gap between students and HWC and proposed students difficulties in HWC meetings.  
- Collaborated with maintenance committee to resolve the need of Hostel students.  
-Drafted and executed annual budget plan of hostel with other members of house working committee in HWC meetings.



# ROSHINEE P



## ACADEMIC DETAILS

| Year | Degree / Board                                    | Institute                                | GPA / Marks(%) |
|------|---|--|----------------|
| ---  | B.Tech in Biochemical Engineering & Biotechnology | Indian Institute of Technology, Delhi    | 7.72           |
| 2015 | Class 12, CBSE                                    | Maharishi Vidya Mandir, Chennai          | 95.6%          |
| 2013 | Class 10, CBSE                                    | Kamala Niketan Montessori School, Trichy | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- **Design and Innovation Summer Award:** Conferred by MHRD; formulated a less toxic **fertiliser** combination (2017)
- **Certificate of appreciation:** Awarded for getting above **95%** aggregate & **A** grade in all subjects in **AISSE** (2015)
- **Best Cadet:** Facilitated for excellence in academics & overall conduct, **top of the class**, for **5** years (2008-2013)
- **Certificate of honour:** Awarded for 'Distinguished performance' in All India **ASSET** for **2** consecutive years (2009)

## PROJECTS

- **Protein induced bending in dsz operon, Dr. Preeti Srivatsava** *Extended as B.Tech Thesis* (May, 2018 - Present)
  - Conducted **critical analysis** of different parameters & **optimized** them to obtain desired vector and mutated insert
  - Shall evaluate **bending patterns** in dsz operons to enhance its application in **bio-desulphurization** of fuels
- **Investigating synergistic effects of AMPs and Antibiotics, Dr. Archana Chugh** (May - June, 2017)
  - Found Minimum Inhibitory Concentrations of *X.campestris* & *F.solani* (plant pathogens) against **7 AMPs & Antibiotics**
  - Tested the effect of **40+** of their **combinations**; conducted toxicity studies of synergistic & additive combinations
  - **Identified** a combination with potential application as **fertilizer**; a **manuscript for publication** is under preparation
- **Designing content for Junior Undergraduate Lab course, Dr. Vikram Singh** (May - July, 2018)
  - Devised **framework & content** for UG lab course '**Heat transfer & Fluid mechanics**' for 3 experiments using **LaTeX**
  - **Collaborated** with **professors & lab assts.** collating their inputs to prepare **detailed reports** after extensive research
  - Lab manual formulated with **precise schematics** & quality theory was successfully **floated** for use since **Sem-1, 2018**
- **Drainage grid survey to assess adequacy of drainage system, Dr. A.K Gosain** (Oct - Nov, 2016)
  - **Surveyed & scrutinized** the **drainage network** of allotted Grid and simulated **geo-tagged** photographs of drainages
  - **Mapped** photographs & info. collected using **ArcGIS**; discerned locality level problems that give rise to the **flooding**
- **Course Projects** done in *Data Structures & Algorithms; Introduction to Computer Science*
  - Implemented **Pagerank** that can add/delete links & multiply vectors using **Sparse Matrix** & **circular Multi-Linked list**
  - Formulated a **Market Data Publisher** that can register/ de-register and update stock prices using an **AVL Tree**
  - Built an **Image Morpher** that uses 'Point Triangulation System' and OpenCV to analyse and transform images
  - Developed an **Image editor** which implements blur filter and edge detection

*(All projects done in C++)*

## INTERNSHIPS

- **Summer Intern, Fingertips Education Pvt Limited** *An Ed-Tech Startup* (June - July, 2016)
  - Expanded Fingertips' **MOOC library** by curating & categorizing content; Assisted in **technical testing** of their product

## POSITIONS OF RESPONSIBILITY

- **Decoration Secretary, Himadri Hostel** (July, 2016 - June, 2017)
  - Managed the **art direction** of Himadri's **Dramatics** and **Dance** club in all their institute level **BRCA** events
  - **Collaborated** with **FAC** representatives of different hostels to organise **interhostel events** & intrahostel **workshops**
  - Contributed in organising 'engaging intrahostel workshops' to **increase** no. of participants in **institute level** FAC events
- **Member, COPMIN, Himadri Hostel:** *Committee for promotion and monitoring for interaction* (July, 2018 - Present)

## EXTRA CURRICULAR ACTIVITIES

- **Cultural & Sports Activities:** *Actively participated and represented hostel in several institute level events*
  - Participated in institute- level Oil painting, Clay modelling, Tile painting, Mime Stalwarts (2015-16)
  - Participated in inter-hostel 100 m, 200 m, High Jump, Long Jump (2015-16)
- **Psycho-Spiritual Intervention Program, HUSS Dept.:** Completed **14** online sessions & psychological testing
  - Helped understand & devise effective techniques to improve well- being of college students through **research** (2018)
- Completed Invest India's **4 week** online course '**Startup India Learning Program**' & **Startup 201** series by **EdC** (2017)

## TECHNICAL SKILLS

**Programming skills & Softwares:** *Data structures & Algorithms, C++, HTML, SQL, Excel, LaTeX, MATLAB, AutoCAD*



# SHRADHA SAINI



## ACADEMIC DETAILS

| Year | Degree / Board  | Institute  | GPA / Marks(%) |
|------|---|--|----------------|
| ---  | B.Tech in Biochemical Engineering & Biotechnology<br>CBSE | Indian Institute of Technology, Delhi<br>Bakhshi's Springdales Sr. Sec.<br>Sachool, Kota | 6.587<br>93.2% |
| 2015 | CBSE  | Bakhshi's Springdales Sr. Sec.<br>Sachool, Kota  | 10/10          |
| 2013 |   |  |                |

## SCHOLASTIC ACHIEVEMENTS

- Awarded **Design Innovation Summer Award (DISA)**, by Ind. Research & Dev. Unit, IITD 2 tier selection process [2017]
- **AIR 210** in ICAR (Indian council of Agricultural Research) 20th entrance exam AIEEA, among **1 million** people [2015]
- **Rank 17** in State Talent Search Examination (**STSE**), securing (80%-90%) marks in state **merit list** in Rajasthan [2014]
- Achieved Olympiad Rank **134** and **State rank 8** in International Olympiad of Science (**IOS**) by obtaining 83.16% [2011]

## INTERNSHIPS

- **Venera Tech. Pvt. Ltd., Noida, Uttar Pradesh** (May, 2018 - June, 2018) : Business Analyst [2018]  
*Performed a study on the OTT services Global Market with a **detailed analysis** of data and presented **business model**:*
  - **Analyzed** business challenges faced by OTT industry, **surveyed** over 100 OTT comp. for content quality challenges
  - **Investigated** investment and subsequent growth in subscriber base, revenue, and content volume from 2015 to 2018*Received **Letter of Recommendation** from Product Marketing Team, for contribution to organization*
- **Revolutionary Motivation Pvt. Ltd, Delhi** Full time(June - July), wfh(May-June) : Marketing [2018]  
*Focused on increasing the partnership, arranged sessions in comp., NGO's & schools, provided advertising strategies*
  - **Led** the marketing team, **analysed** the specific business strategies and major organisations working in the same sector
  - Responsible for **pitching** of 100+ organizations in different sector, **organized** motivational sessions for companies*Received **Letter of Recommendation** from the CLO and was **appreciated** for commendable work ethics and teamwork.*
- **GoodEd Tech. Pvt.Ltd., Delhi** (May, 2016 - July, 2016) : Product Marketing & Business Analyst [2016]
  - Capturing, aggregating and transforming vast data into **meaningful reports** Received **LOR** for contribution to the org.
  - **Delivered** strategic marketing leadership to **add** revenue, define and **refine** brand recognition*Received **Letter of Recommendation** from Chief Business Officer of GoodEd Technologies for outstanding contribution*

## PROJECTS

- **Investigation of synergistic effect of peptides on plant pathogen (Prof. Archana Chugh)** (May'17 - Dec'17) [2017]  
*Research focused on assessing antibacterial efficacy of the combination of peptides and antibiotics on plant pathogen*
  - **Publishing research paper** of the successful combination, funded by **DISA** and **KSBS**
  - Participated in the **pitching session** (only girl to participate) organized in IIT Delhi by **Prof. PVM Rao**
- **Valetude Primus Healthcare Pvt. Ltd, New Delhi** (May 2018) Product Developer [2018]  
*Focused on protocols **optimization** of iMC2 device which is used for rapid & early stage **diagnosis** of typhoid.*
  - **Coated** Magnetic Nano-particles (MNP) with antibodies, **purification** of antibodies using affinity chromatography
  - **Cell detection** by Fluorescence spectroscopy, growth exp. to **check** effect of antibiotics on the bacterial growth*Received **Letter of Recommendation** from the Co-founder of Valetude Primus for exemplary work accomplishment*

## POSITIONS OF RESPONSIBILITY

- **Activity Head, Sportech, Quiz event Marketing** (Jan, 2017 - Feb, 2017) [2017]
  - **Approached** 40 corporate for securing **sponsorship** for the quizzing event, successfully
  - Handled delegate inquiries and reservation and distribution of certi., **Co-judged** the prelims and finale of the event
- **Team Head, Rendezvous Publicity** (Sept, 2017 - Oct, 2017) Streamlined publicity, **ratched up** overall participation

## EXTRA CURRICULAR ACTIVITIES

- **Singing** - Performed at **National Level**, State, Inter college, Inter hostel, Inter school events in diverse musical capacities **Hindustani Classical music, western classical (A Capella) vocals**
  - Secured **2nd** position in **National Level** Singing Competition - **3 tier** competition organized by Anuvrat Nyas [2011]
  - Performed in **Rendezvous 2016**, inter-hostel events like Jukebox, Mehfil, Consonance and House Day Performance
- **Sports & Dance** : Plays: Lawn-tennis, Squash, Swimming, Badminton, Basketball, Volleyball, Cricket & Football.
  - Secured **2nd** position in **District level** Basketball Championship (2010 - 2011)
  - **Gold** medal, Inter hostel **Badminton** Championship 2017, **2nd** position, Inter hostel **Dance** Competition 2016
  - **Gold** Medal in Shot Put & **Bronze** Medal in High Jump, Inter hostel **Athletics** Championship [2015]
- **Hosted** guest lecture of one of the 26 Most powerful business women of 2017, **Miss Vinita Paunikar** [2017]



# SWAPNIL SINHA



## ACADEMIC DETAILS

| Year | Degree / Board                                    | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech in Biochemical Engineering & Biotechnology | Indian Institute of Technology, Delhi | 7.557          |
| 2015 | Maharashtra State Board                           | PACE Junior Science College           | 84.77%         |
| 2013 | ICSE  | Ryan International School, Goregaon   | 96%            |

## SCHOLASTIC ACHIEVEMENTS

- **Harvard Project for Asian & International Relations:** Harvard's largest student conference in the Asia-Pacific (2018) - 1 of 600 international delegates selected from over 40 countries for the 5-day HPAIR conference at Kuala Lumpur
- **University of Illinois at Urbana-Champaign:** Completed course on Business Strategy with a 94.5% grade on Coursera (2018) - Learned frameworks and modules for external & internal analysis, competitive advantage and strategic renewal
- **International Publications:** Sinha, Swapnil et al., 'Fundamental Analysis of Hedge Funds', published in IJPSAT (2018) - Sinha, Swapnil et al., 'A Political and Social Analysis of Kazuo Ishiguro's Remains of the Day', IJPSAT (2018)

## INTERNSHIPS

- **Biozeen Limited, Bengaluru** (May, 2018 - July, 2018) : Project Management Division
  - Carried out the automation, testing & verification processes for analysis of over 100 basic components of bioreactors
  - Performed a comprehensive study and breakdown of the piping and instrumentation apparatus of 5 process vessels
  - Implemented projects on performance assessment of fermenters with product capacities ranging from 60 L to 600 L  
*Received special appreciation from manager for showcasing a commendable work ethic and willingness to learn*
- **Agastya Foundation, Bengaluru** (December, 2017) : Science & Math Division
  - Developed innovative lessons and methodologies for teaching math to underprivileged children from 3 different states
  - Structured and set up a dedicated Math Lab in the specialized 172-acre science campus of the foundation at Kuppam
  - Created Raspberry Pi programming software implementations of Geogebra, a Math instructional module for calculus

## EXTRA CURRICULAR ACTIVITIES

- **Quizzing & Literary:** Secured 45+ podium finishes in quizzes at the national and institute level
  - National Level: Secured 30+ podium finishes in quizzes across the country
    - Led IIT Delhi to 3rd and 4th positions in consecutive years at Nihilanth, the inter IIT-IIM quizzing festival (2017, 2018)
    - Led the contingent to the Runners Up Position in Literary and Quizzing at the inter IIT Cultural Meet, IIT Kanpur (2017)
    - Winner, General Quiz, Cannot Place, Delhi's Quizzing Festival (2017); Winner, MOCC Quiz, Gargi College (2016)
    - Winner, SciTech Quiz, Inter-IIT Cultural Meet, IIT Kanpur (2017); Winner, Open FLAMES Quiz, St Stephens (2017)
    - Winner, SpEnt Quiz, Brainduel Sports Championship, Siri Fort (2018); Winner, MOMS Quiz, DTU (2018)
    - Winner, SpLitEnt Quiz, Cannot Place, Delhi's Quiz Fest (2017); Winner, Pop Culture Quiz, MSIT (2018)
    - Winner, Word Games, IIT Kanpur (2017); Winner, Media Quiz, KNC (2017); Winner, SciBizTech Quiz, DTU (2018)
    - Runner Up, General Quiz, IIM Lucknow (2017); Runner Up, Open FLAMES Quiz, Lady Shri Ram College (2017)
  - Institute Level: Secured 15+ podium finishes across inter-hostel & league formats; Quizmaster for competitive events
    - Winner, Overall League Champions Trophy, leading league team to victory for two consecutive years (2017, 2018)
    - Winner, Mastermind, IIT Delhi's flagship Quizzing championship. First freshman winner and first two-time winner ever (2016, 2018)
    - Winner, Lorem Ipsum (2017); Winner, SpEnt Quiz (2017); Winner, Jeopardy (2017); Runner Up, India Quiz (2016)
    - Winner, Variety Quiz (2017, 2018); Runner Up, HOME Quiz (2017); Runner Up, Occam's Razor, the Interhostel Quiz (2016, 2017)
    - Runner Up, 3 Muses, Lit Club (2018); Runner Up, Fresher's Interhostel Quiz (2015); Runner Up, Word Games (2017)
- Awarded Best Fresher, Quizzing Club by BRCA for contributions to the Club in the first year (2015-16)

## POSITIONS OF RESPONSIBILITY

- **Events Coordinator, Rendezvous 2018** (May, 2018- Present) : Led and managed a 3-tiered team of 50+ members
  - Managed the complete ideation, planning and execution of all pre-fest events (online & offline) of the festival over 6 months
  - Revamped and restructured the pronite format for Day 1 of the fest leading to an increase in the influx of crowd by 20%
  - Collaborated with 20+ State Bhawans in Delhi for the 1st ever State Showcase, exhibiting the cultural diversity of India
  - Conducted Blitzkrieg and Spectrum, trademark events with prelims in 4 cities, garnering entries from over 40 rock bands
- **Secretary, Quizzing Club** (Apr, 2017 - Apr, 2018): Led a 14-member team to conduct quizzes and workshops yearlong
  - Specifically targeted freshers leading to increased turnouts, with workshops and innovative events attracting 150+ students
  - Formed a strategic tie-up with the Delhi Quiz Club to provide quality quizmasters for institute and national level events
  - Recruited renowned quizmasters to conduct 7 different events at Rendezvous 2017 with 1500+ people participating
- **Key Positions in Quizzing Club, BRCA** (July, 2017- Present) : Involved in functioning at hostel and institute level
  - Member, Advisory Panel: 1 of 5 members responsible for advising secretary on the direction of the club (2018-19)
  - Captain: 1 of 6 captains at the IIT Delhi Quizzing league; Led the team to the first position across events yearlong (2017-18)



# AKSHAT SHARMA



## ACADEMIC DETAILS

| Year | Degree / Board              | Institute                             | GPA / Marks(%) |
|------|-----------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Civil Engineering | Indian Institute of Technology, Delhi | 7.059          |
| 2014 | CBSE                        | DAV Centenary Public School, Ajmer    | 90.8%          |
| 2012 | CBSE                        | Mayoor School                         | 9.8/10         |

## QUALIFYING EXAMS

- Joint Entrance Examination (JEE) Advanced Rank: 2107 (GE)

## INTERNSHIPS

- Public Work Department, Rajasthan (May, 2017 - July, 2017) :

- Successfully completed 45 days of training at PWD, Ajmer district, Rajasthan.
- Was exposed to various activities and methods involved in different stages of construction processes.
- Closely assisted the monitoring of activities at 3 different construction sites in the city.

## PROJECTS

- Pedestrian Safety at Bus Stops (Prof Ramachandra Rao Kalaga) (May, 2018 - July, 2018) :

- Identification of high pedestrian crash locations at or near bus stops in New Delhi.
- Plotted and analysed geo coordinates data obtained over a period of 10 years using Qgis software.
- Analyses of motorist and pedestrian behavior proximate to identified bus stops.
- Comprehended pedestrian safety perception and analysed built environment characteristics that may contribute to crashes.

## POSITIONS OF RESPONSIBILITY

- Events Coordinator, Rendezvous'18 (November, 2017 - Present) :

- Selected through a rigorous two stage process based on active participation throughout the year in BRCA and based on the managerial skills developed by having past experience of being part of the organizing teams of Rendezvous 2016 and 2017.
- Leading and managing a three tier team of 200+ volunteers to conduct various competitions and informal events in Rendezvous having a footfall of 80k+.
- Responsible for the complete ideation, execution, artists handling, budget management and execution of MoUs for the Comedy Events and the EDM Competition to be held during the fest.

- Dance Club Representative (April, 2016- March, 2017) :

- Managed 8+ Dance events at the inter-hostel and inter-college level experiencing 1000+ participants.
- Managed dance events during Rendezvous'16 that had participants from over 35 colleges from across the country.
- Conducted and organized extensive dance workshops in hostel to engage freshers in the activities of the Dance Club.
- Was chosen to be the Best Representative of the Club from a team of 13 representatives.

## EXTRA CURRICULAR ACTIVITIES

### Dance

- Runner's Up at Inter IIT Cultural Meet 2017-18.
- Runners Up, Kaleidoscope Western Group Dance, Rendezvous 2016-17, BRCA IITD.
- Runners Up, Kaleidoscope Western Group Dance, Rendezvous 2017-18, BRCA IITD.
- Awarded Best Representative, Dance Club, BRCA (2016-2017)
- Significant Contribution in Cultural Activities (2016-17)
- Participated in various Inter college Group Dance competitions as a member of V Defyn Dance Academy.
- Winners at the BFAB Dance Explosion Competition which had best teams from all over the country. Was given the title of 'Most Explosive Dance Performance'.
- Winners at 6 college fests including IHE, Hindu College and Lady Hardinge Medical College.
- Runner's Up at 5 college fests including Sri Venkateswara College, Motilal College and Maulana Azad Medical College.

### Sports

- Winners, Inter Hostel Table Tennis Tournament 2015-16

### National Cadet Corps(NCC): Best Cadet Award for the session 2015-2016

- Completed 100 hours of service for NCC unit of IIT Delhi.
- Attended a 5 days NCC camp and lead the Republic day Parade.



# ANAND RAJ



## ACADEMIC DETAILS

| Year | Degree / Board              | Institute                             | GPA / Marks(%) |
|------|-----------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Civil Engineering | Indian Institute of Technology, Delhi | 6.467          |
| 2015 | CBSE                        | D.A.V. Public School BSEB Patna       | 90%            |
| 2013 | CBSE                        | D.A.V. Public School Khagaul Patna    | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- **Pratibha Samman Samaroh[2013]:** Awarded as the best student in school for **outstanding performance** in Std. X
- **Olympiad:** International Mathematics Olympiad (2011), school rank **16**; National Science Olympiad (2012), school rank **6**

## INTERNSHIPS

- **Revolutionaries Motivations, New Delhi** (May, 2018 - July, 2018): *Public relations department*
  - Researched and assembled **databases** of schools, colleges, and NGOs for public relations and marketing department
  - **Spieled and accosted** different NGOs and NPOs regarding probable association with Revolutionaries Motivations
  - **Coordinated** motivational sessions & workshops given by our CLO; **reassessed content work** of the content team
  - Developed **innovative** marketing and promotional strategies to increase the outreach of our organization
  - Received a **letter of recommendation** from the company founder and CLO for great work in respective department
- **Delhi Metro Rail Corporation (DMRC), Delhi** (June, 2017 - July, 2017): *Construction of underground Metro*
  - Examined and analyzed the **equipment and materials** used for construction of the underground Metro structure
  - Multiple surveying visits to inspect the structural designing of the Metro station, investigating different units
  - Observed the entire **Air circulatory system** of the tunnels and the ventilation mechanism of station premises
  - **Prepared a report** on the integrated construction practices and machinery involved in the entire **Metro project**

## PROJECTS

- **Traffic headway and travel time** (Prof. Geetam Tiwari) (August, 2017 - September, 2017): *Analysis of GPS coordinates data*
  - Designed automated program to **calculate the radius** of bus stops using the GPS coordinates data of DTC buses
  - **Designed an algorithm** for calculating the traffic headways and travel time of vehicles using GPS coordinates data
  - Analyzed the variation in traffic **flow density and flow speed** with time in all the routes of DTC buses in Delhi NCR
- **Cement activated geopolymers concrete** (Prof. Bishwajit Bhattacharjee) (July 2018,- Present):(Course Project)
  - Researched and **analyzed papers** on cement and alkali activated geopolymers concrete cured at ambient temperature
  - Designing geopolymers concrete mixes using **plasticizers**; casting to study the impact on **strength and workability** of GPC
  - **Cost investigation and comparison** of geopolymers concrete with normal strength concrete to study its **feasibility**

## POSITIONS OF RESPONSIBILITY

- **Training and Placement Cell, IIT Delhi** (August 2016 - April 2018): Active member in the cell for 2 years  
**Central Team Member** (April 2017-April 2018): Conducted in a **team of 10** campus recruitment processes of IIT Delhi
  - Coordinated around **300 Volunteers** and **8 executives** for different internship and placement processes throughout the year
  - Pitched around **250 companies** and successfully converted around **70 companies** for campus recruitment in 2 years
  - Implemented real-time **automated slotting** of student interviews, managed interview and pre-placement processes
  - Inspired and supervised **250 Volunteers** and effectively scheduled **29 Companies** in December placements 2017**Volunteer** (July 2016-April 2017): Ensuring smooth process & responsible for logistics requirement for all companies
  - Supervised volunteers to ensure good communication and **smooth interview processes** in December placements 2016
 Awarded '**Exceptional contribution**' (2018) and '**Significant contribution**' (2017) from Training and Placement Cell

## EXTRA CURRICULAR ACTIVITIES

- **Dramatics: Directed and acted**, Inter-Hostel Stage Play Competition (2017) play *Toba Tek Singh* awarded for best script
  - Directed IIT Delhi play in **Rendezvous Mime Competition** 2017 and part of Ankahi-theatre group for **2 years**
  - **1st Runner-up** and **best director** in Inter-Hostel Stage Play Competition 2017, acted in play '*Twelve Angry Men*'
  - **Directed** Inter-Hostel street play Competition 2016 for play *Shahadat* and **staged 9 play** performances inside IIT Delhi
  - **Lead actor** Inter-Hostel Stage Play Competition 2016 '*Basant Ritu*'; Inter-Hostel Street Play Competition 2015 '*Mardaangi*'
  - Part of the production team of Play '*Mann Ke Bhawar*' **Rendezvous Stage Play** 2016 and Stage Orientation Play 2016
- **Volunteering:** **Completed 100 hours** of Social work for NSS IIT DELHI; **donated** blood twice in Safdarjung Hospital
  - **Collection drive** (may 2017): Worked in a **team of 10** and collected used clothes from **30 houses** for needy people
  - **RTE Indus Action**(March 2016): **Apprised** families in Delhi about **Government scheme** of reservation in private school
  - Participated in discussion **Volunteering: is it even worth it?** and attended workshops on **RTI and waste management**
  - Volunteered for Srijan, an AINA project, **counseled and enlightened** underprivileged children in Munirka Slum
- Successfully completed **DISHA 4 days** leadership and skill development intensive **workshop** for developing life skills



# ANKIT SONI



## ACADEMIC DETAILS

| Year | Degree / Board              | Institute                             | GPA / Marks(%) |
|------|-----------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Civil Engineering | Indian Institute of Technology, Delhi | 7.202          |
| 2015 | CBSE                        | Kendriya Vidyalaya ONGC Panvel        | 96.6%          |
| 2013 | CBSE                        | Kendriya Vidyalaya ONGC Panvel        | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- **Minor degree, Business Management:** Completed 15/21 credits; Advanced courses in *Marketing, Finance & Operations*
- **International Mathematics Olympiad:** Secured International rank 292 in final round after a 2-tier selection process [2015]
- **National Science Olympiad:** Secured an International rank 192 in the final round after a 2-tier selection process [2015]
- **41st Jawaharlal Nehru Science, Mathematics, & Environment Exhibition: Winner, Quiz event,** Mumbai region [2013]
- **Certification, Advance Excel:** Mastered concepts on *Data Visualisation & Advance Concept modules*; scored 87.5% [2016]

## INTERNSHIPS

- **Bosch Limited, Gurgaon | Sales Department :** Development of an *Opportunity Analysis* of MHE [May, 2018 - Jul, 2018]
  - Comprehended the market; Formulated KPIs by examining product portfolios of 20+ MHE manufacturing companies
  - Represented Bosch in front of 10+ managers of Automotive, E-commerce & FMCG companies, to understand the market
  - Developed the *Opportunity Analysis matrix* of Material Handling Equipment market by analyzing the cost & volume data
- **Urban Trainers, Bangalore | Graphic Designing, Work from home:** 1 out of 80+ applicants PAN India [Dec, 2017 - Feb, 2018]
  - Selected based on proficiency in **Adobe Illustrator, Adobe InDesign & CorelDRAW X8** to formulate company designs
  - Solely responsible for overhauling designs of Logo, Brochure, Mobile Application, Website & Posters for all outreach platforms

## PROJECTS

- **Analysis of HGV and LGV Movement in Delhi** (Guided by Prof. Geetam Tiwari) [May, 2017 - Jul, 2017]
  - Hands on application on realtime **Geographic Information System** using ArcGIS 10.3, OpenStreetMap and Google Maps
  - Updated the data of digitized road specifications & used **Webster's Formula** to calculate "Time delay" at each signal
- **Business Management Studies** | DMS, IIT Delhi
- **Finance:** Scrutinization of *debt market* of India, US and Japan; Development of **Bond market** in India | course project [2018]
- **Marketing:** Secondary research on impact of "Nudging in Healthcare"; Proposed **2 potential nudges** | course project [2018]
- **Advertisement & Sales Promotion:** On-field study of *promotional campaign* of **Innisfree (South Korea)** | course project [2018]

## POSITIONS OF RESPONSIBILITY

- **General Secretary, Board for Student Welfare:** Leading a 4-tier team of 160+ students, 2 committees [Apr, 2018 - Present]
  - Envisioned & achieved **first ever inclusion of PG reps**; Structured a **training program** for mentors & representatives
  - Successfully launched **AlmaConnect** in IITD; Completely revamped BSW Website, achieved **fourfold increase** in outreach
  - Organised and structured the **Open House** for all female JEE(adv) candidates of North Zone (**instituted by JoSAA**)
  - Institutionalised the **BSW Council**; Pioneered a **souvenir & merchandise shop** in campus via expansion of SCOPS
- **Overall Coordinator, Speranza'18:** Led a team of 50+ students, conducting more than 20 youth events [Apr, 2018 - Sep, 2018]
  - Conceptualised and restructured **Speranza itinerary**, making it a weeklong fest for the **first time**, to increase participation
  - Invited various prominent personalities and alumni from all over India for *Guftagoo, Unconventional IITians* and other events
  - Initiated events focused on **PG inclusion**; Collaborated with NGOs & student bodies to conduct events for different horizontals
- **Public Relations Secretary, Board for Student Welfare:** Unanimously elected to lead a team of 26 [Apr, 2017 - Apr, 2018]
  - Revamped the BSW constitution to formalize Mentorship Program as an integral part of BSW, for the **first time in 10 years**
  - Partnered with 20+ IIM alumni to conduct **CAT'17 Mock Interviews**; **Restructured STIC Dinner** for 800+ freshmen & 30+ profs
  - Worked in liaison with IITD Counsellor to create "**Self Help Section**", an online database of solutions of all psychological issues

## EXTRA CURRICULAR ACTIVITIES

### Case Study & Business Challenges:

- **Winner, Tryst'18 case study challenge, 2018 : A Case Odyssey** on "Opening of a new FMCG plant by Patanjali" [2018]
- **National Finalist, The Indian Case Challenge 2018** in Kshitij (**Asia's Largest Techno Management Fest**), IIT KGP [2018]

### Social Endeavor:

- **CanSupport Intern, New Delhi | Marketing & Communications Department** [Dec, 2017]
  - Designed posters, graphics and calendar & **raised funds** for their annual flagship event "11th Walk for Life" at India Gate
  - Pitched several schools for Cancer Awareness workshops; Actively participated at Day care centers & out-patient clinics
- **Mentor, SMP:** Guided 4 first year students to ensure their comfort and smooth transition into IIT Delhi [Apr, 2017 - Apr, 2018]
- **Drug Abuse Campaign:** Initiated & designed posters for the **first ever** Campaign to tackle the Drug Abuse issue among students
- **Dramatics: Lead Actor** in SCS video to increase awareness of Counselling Services; performed in inter-hostel street play'16



# ANUBHUTI AGARWAL



## ACADEMIC DETAILS

| Year | Degree / Board              | Institute                             | GPA / Marks(%) |
|------|-----------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Civil Engineering | Indian Institute of Technology, Delhi | 8.092          |
| 2015 | CBSE                        | Delhi Public School, Chandigarh       | 96.8%          |
| 2013 | CBSE                        | Amity International School, Saket     | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- International Publications:** Coauthored 2 research papers in the fields of **Marketing Management** and **Linguistics**
  - 'OTT Market and Netflix in the Indian Subcontinent: A Case Study', Int'l Journal of Science and Research (accepted) ('18)
  - 'Should Classical and Dead Languages be revived', accepted for publication in 2 journals IJSR and IJCTER ('18)
- Case Challenge: Winner**, Colloquium National Case Study Contest held by NSIT Delhi, after **2-tier** selection procedure ('18)
- Letter of Recommendation:** Conferred by Professor Pritha Chandra, for outstanding academic performance in Linguistics ('17)
- CBSE Merit Certificate:** Awarded for being among the **top 0.1 per cent** of successful candidates in **English Core** ('15)
- School topper** in Science stream, with **96.8%** in AISSCE, CBSE; awarded **Gold Medal** for highest overall proficiency ('15)

## INTERNSHIPS

- Max Ventures and Industries Limited (part of Max Group)** (May, 2018 - July, 2018): *Manufacturing and Real Estate*
  - Devised frameworks to optimize **supply chain management** cost at the plant Max Speciality Films Limited (MSFL)
  - Reduced Turn Around Time by 45%** through redesigned raw material unloading mechanism and drafted technical blueprint
  - Developed an **investment hypothesis** for analyzing **cost-saving** potential of a private trucking fleet operation for MSFL
  - Achieved **15% reduction** in freight costs of shipping goods through extended negotiations with **6 logistics providers**  
*Potential savings of over INR 62 lakhs to be realized in freight cost per year by implementation of recommendations*
- IvyCamp (An initiative of IvyCap Ventures Advisors Pvt. Ltd.)** (May, 2017 - July, 2017): *Venture Capital firm*
  - Led coordination of mentoring vertical to **analyse** start-ups and evaluate match with mentors based on sector & expertise
  - Conceptualized and executed **7 mentor sessions end to end** for **40+ start-ups** across **Bangalore, Delhi and Pune**
  - Initiated** mechanism for assessment of start-ups by **alumni** mentors via formulating data of mentor agreement deals  
*Received Letter of Recommendation from Director for facilitating efficient engagement between start-ups and mentors*

## POSITIONS OF RESPONSIBILITY

- Mess Secretary, Himadri House** (Apr, 2017 - Apr, 2018) :
  - Selected and **led** a committee of **20+** executives to supervise operations of hostel mess serving **500+ residents**
  - Played a crucial role in establishing **two new eateries** in Himadri Hostel; conceptualized and executed **Mess Fest**
  - Spearheaded **initiatives** like collaborations with **nutritionists** and **first ever** recreational **event** for **30+** mess workers
  - Negotiated and **managed** mess budget for optimization of mess inventory; **revamped** strict hygienic practices  
*Instrumental in winning BHM Trophy 2018, awarded to Best Hostel out of 13 hostels on Board for Hostel Management Night*
- Mentor, Student Mentorship Program** (Apr, 2017 - Apr, 2018) :
  - Selected via **three-tier process** to guide 4 freshers; performed life mapping sessions with professional counselors
  - Assisted in network building and pitching for the online portal of **Alumni Mentorship Program**, a first initiative of its kind
- Executive, Civil Engineering Society** (Apr, 2016 - Apr, 2017) :
  - Successfully **managed** events for **100+** students and **international** organizations like **Institute of Civil Engineers (ICE)**

## EXTRA CURRICULAR ACTIVITIES

- Public Speaking:**

Business Events: Moderated panel discussions and talks for eminent organizations and firms at national level

  - Lead Host for **Ek Bharat Shrestha Bharat** event, an initiative of **Ministry of Human Resource Development** ('18)
  - Moderator for open panel discussion among senior leadership team of **E&Y, ATKearney, PwC, Bain and Gartner** ('17)
  - Moderator for interactive talk with **Navdeep Singh Bains, Canadian Minister** on Innovation and Science in India ('16)
  - Lead Host for **National Level** start-up case competition, **Startup Conclave**, hosted by eDC, at Le Meridien, Delhi ('16)

Cultural events: Hosted 20+ events across 3 years, experienced in audience engagement and stage management

  - Lead Anchor for **Rendezvous**, hosted Pro-Nites at Open Air Theatre featuring **Kailash Kher** and **Vishal Shekhar** ('17, '16)
  - Lead Anchor for **Rendezvous**, hosted **Dhoom and Spectrum Pro-Nites** featuring **Shankar Ehsaan Loy** and **Javed Ali** ('15)
  - Host for Inauguration Ceremony of **Tryst**, BRCA Orientation, **SPIC MACAY Virasat, Duo+ Dance, Ragnarok Music** ('16)
- English Debating:** Finalist, Stalwarts, the largest fresher debating competition in IIT Delhi, (out of 200 participants) ('15)
- Hindi Debating:** Represented school at multiple inter-school debates at **Vasant Valley, Carmel Convent, Ramjas** ('12)
- Social Endeavours:** Volunteered as **scribe** for **dyslexic students** multiple times in **CBSE Class 10th** Exams; awarded certificate ('12)
- Martial Arts:** Promoted to rank of 9th Kyu Orange Belt of **Karate** by Tenshinkan Shotokan Ryu Karate Federation-India ('10)



# HARSH VARDHAN SINGH



## ACADEMIC DETAILS

| Year | Degree / Board              | Institute                             | GPA / Marks(%) |
|------|-----------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Civil Engineering | Indian Institute of Technology, Delhi | 7.192          |
| 2015 | CBSE                        | Hope Hall Foundation School           | 94.8%          |
| 2013 | CBSE                        | Chinmaya Vidyalaya                    | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- **Chartered Financial Analyst (CFA)**: CFA Level 2 Candidate, cleared CFA Level 1 exam, scoring in the top decile (2018)
- **Minor Degree**: Pursuing degree in **Economics** from Department of Humanities and Social Sciences, IIT Delhi. (2018)
- Summer Undergraduate Research Award (**SURA**): Conferred for contributions to the Indoor Air Quality Index. (2017)
- Kishore Vaigyanic Protsahan Yojna (**KVPY**): Received coveted fellowship, awarded by IISc and Govt. of India. (2015)
- National Talent Search Examination (**NTSE**): Awarded scholarship by NCERT and GOI in a 2-tier process (2013)
- **Machine Learning**: Completed Online Course taught by **Andrew Ng, Stanford University**, scoring 95.7% (2018)
- **Relevant Courses** : Introduction to Economics, MicroEconomics, MacroEconomics, Applied Game Theory, Econometric Methods, Introduction to Computer Science, Data Structures and Algorithms, Linear Algebra, Calculus
- **Online Courses** : Completed **Specialization in Business and Financial Modeling** offered by **Wharton School**
  - Fundamentals of Quantitative Modelling (Jan, 2017) - Introduction to Spreadsheets and Models (Feb, 2017)
  - Modeling Risk and Realities (Mar, 2017) - Decision Making and Scenarios (Apr, 2017)

## POSITIONS OF RESPONSIBILITY

- **Overall Coordinator, Infrastructure and Web Design, Sportech 2018** (Oct, 2017 - Mar, 2018) :
  - Led multi-tier team of Coordinators and Activity Heads to conceptualize, plan & successfully execute the 4 day festival.
  - Implemented the **Live Scoring Solution**, enabling real-time updates online, in collaboration with **India at Sports**.
  - Spearheaded the Design, Development and continuous updates of the **Official Sportech Website** from scratch.
  - Collaborated with different teams including Events, Publicity, Hospitality, Finance and Administration and Marketing.
- **Institute Vice Captain, Badminton, Board for Sports Activities** (Apr, 2017 - Apr, 2018) :
  - Conceptualized and Organised the **Ladder**, an initiative to increase participation among the non-team fraternity.
  - **Acting captain** of the team at Udgash, IIT Kanpur and Sangram, IIT Roorkee, leading to 3rd place finishes.
  - Devised weekly practice & evaluation-feedback mechanism to foster competitive temperament within team-mates.

## INTERNSHIPS

- **NTPC Limited, FGUTPP, Unchahar** (May, 2018 - July, 2018) : *Civil Engineering Trainee*
  - Undertook **Field Engineering role**, gained exposure to on-site procedures and interpretations of construction drawings.
  - Analyzed the Rate Contracts and detailed Construction Reports of the different components of a chimney.
  - Learned the method of determination of the height of the chimney, using appropriate Indian Standard Codes.

## PROJECTS

- **Development of a Comprehensive Indoor Air Quality Index (Prof. Mukesh Khare)** (Feb, 2017 - Oct, 2017) :
  - **First of it's kind research** work in context of the Indian Subcontinent, with a wide range of applications.
  - Analyzed the Dose-Response characteristics of different pollutants for deciding conc. breakpoints for the IAQ index.
  - **Cross-Valuation** of the trained index through data collection by undertaking surveys at public places like underground metro stations.
- **Wharton School, Business and Financial Modelling Capstone (Coursera)** (Jun, 2017 - Jul, 2017) :
  - Analyzed components of **Portfolio Diversification** viz Modern Portfolio Theory, Efficient Frontier, Sharpe Ratio.
  - Implemented principles of Negative Covariance to form an **Optimal Risky Portfolio** from a set of securities.
  - Learned using **Yahoo Finance** for collecting data viz Beta ( $\beta$ ) for the securities, Daily Returns, Financial Ratios.
- **Equity Research Initiative**, Online Course offered by **Mentored Research** (Dec, 2016 - Jan, 2017) :
  - Performed live case study on the **Buy or Sell Recommendation** of the stocks of the company Harley Davidson.
  - Analyzed **Financial Statements** to find financial ratios like Gross Profit Margin, Return on Sales & Return on Equity etc.
  - Analysed the company using SWOT, PEST etc & did equity valuation using the **Capital Asset Pricing Model**.
- **Market Data Publisher (Prof. Saroj Kaushik)** (Mar, 2018) :
  - Implemented using an **AVL Tree**, for Storing, Retrieving and Updating Security Data at the Nodes, for quick data access.

## EXTRA CURRICULAR ACTIVITIES

- **Inter-College Sports** : Member of the Institute Badminton team, leading and representing IIT Delhi at various events.
  - Winner, **Gold Medal, Badminton Men's, Sportech**, IIT Delhi's annual inter-collegiate Sport's Fest (2018)
  - Winner, **Bronze Medal, Badminton Men's, Sangram**, IIT Roorkee's annual inter-collegiate Sport's Fest (2018)
  - Winner, **Bronze Medal, Badminton Men's, Udgash**, IIT Kanpur's annual inter-collegiate Sport's Fest (2017)



# HARSHIT GUPTA



## ACADEMIC DETAILS

| Year | Degree / Board                 | Institute                             | GPA / Marks(%) |
|------|--------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Civil Engineering    | Indian Institute of Technology, Delhi | 7.257          |
| 2014 | Central Board Secondary School | Divine Child High School              | 88.2%          |
| 2012 | Central Board Secondary School | Delhi Public School Surat             | 9.8            |

## SCHOLASTIC ACHIEVEMENTS

- **Design and Innovation Summer Award (DISA)** 2017 from IIT Delhi
- **JEE Advanced**: Secured All India Rank **1966** in JEE Advanced (IIT JEE) 2015 among 14 lakh candidates
- **National Talent Search Examination (NTSE)**: Cleared State Level National Talent Search Examination (2010)
- **International Mathematics Olympiad**: **Gold Medal** in 6th International Mathematics Olympiad (2012)
- **Problem Solving Assessment (CBSE)**: Secured over **99 percentile** in Quantitative Reasoning and Language Assessment

## INTERNSHIPS

- **Citicorp, Risk Department** (May, 2018 - July, 2018): *Development of Visual Analytics tool for Big Data*
  - Strategized with domain stakeholders in **evaluating, integrating** and **expanding** upon current fraud strategies
  - Devised **BadRank (improvised PageRank)** algorithm for identification of **credit card fraud perpetrators** in US market
  - **Extended BadRank implementation** for specific geographical locations to identify **fraud rings in different US states**
  - **Derived actionable insights** via visualization using BadRank by leveraging **cross functional data sources** in fraud space
  - Extended a **Pre-Placement Offer** for impeccable performance during internship and excellent project results

## PROJECTS

- **Arth** (May, 2017 - July, 2017): *Technology for Cremations using Cow Dung*
  - **Extensive market research** to understand the demand of cow dung based fuel for cremations and associated risks
  - **Designed and developed machine** for production of modified cow dung logs and **built supply chain** for product penetrator in market
  - Won **Design and Innovation Summer Award (DISA) 2017** from Design Innovation Centre, IIT Delhi
- **Improvisation of Accident Data Recording System** (May, 2017 - July, 2017):
  - Analysed the current system deployed by **TRIPP, IIT Delhi** to point out sources of inefficiencies and inaccuracies
  - **Automated** data collection using programmes for **data field search, keyword analysis** and **data extraction from Google Maps**
  - Developed an interactive **User Interface** for convenient data recording which **significantly improved efficiency** of the system

## TECHNICAL SKILLS

- **Courses**: Engineering Visualization, Product Realization by Manufacturing, Introduction to Economics, Public Transportation Systems, Construction Management and Practices, Professional Ethics and Responsibilities
- **Programming and Software**: Python, Java, C, C++, JavaScript, Web Development (HTML, CSS), Autocad Desk Inventor

## POSITIONS OF RESPONSIBILITY

- **Coordinator, Publicity, Rendezvous 2018** (November, 2017 - July, 2018):
  - **Conceptualised theme** for the festival & strategically integrated major sectors to manage **all-round publicity** of all events
  - **Lead content design team** responsible for delivering content for marketing proposals, official website and publicity activities on 5 social media platforms
- **Representative, Debating club, Board of Recreational and Cultural Activities, IIT Delhi** (April, 2016 - March, 2017):
  - Member of team responsible for **conducting debating events** for Debating society, IIT Delhi which constitutes of over **150 members**
  - Member of **Organising Committee** responsible for planning and execution of **2 National Level Debating Tournaments**
  - Member of **Marketing Team** responsible for executing marketing strategies for **collaboration with corporates** to raise funds
- **Project Executive, Enactus IIT Delhi** (Jan, 2016 - July, 2017):
  - Valuable experience in **Social Entrepreneurship** through Enactus (A global student run non-profit organisation)
  - **Planning and execution** of projects: **Titli** (production of affordable sanitary napkins), **Nirmalya** (decentralisation of waste management system in Delhi) and **Arth** (leveraging technology for cremations using cow dung based fuel)

## EXTRA CURRICULAR ACTIVITIES

- **Debating**:
  - Semi Finalist at **IIT Delhi Exposition** (2016) - Open Asian Parliamentary Debate
  - Semi Finalist at **IIT Delhi Fresher's Parliamentary Debate** (2016)
  - **Represented Hostel** in various Inter Hostel Debating Tournaments
- **Public Speaking**:
  - **Speaker Presenter** for Enactus IIT Delhi (Runner-up team) at **Enactus India National Competition 2016**



# JAIN HIMANSH

## ACADEMIC DETAILS

| Year | Degree / Board              | Institute                             | GPA / Marks(%) |
|------|-----------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Civil Engineering | Indian Institute of Technology, Delhi | 7.581          |
| 2015 | CBSE                        | Gurunanak Public School               | 93.2%          |
| 2013 | CBSE                        | Amity High School, Bharuch            | 10.0/10.0      |

## SCHOLASTIC ACHIEVEMENTS

- **Minor Degree in Economics:** Completed **18 out of 20** credits required to be eligible for a minor degree in Economics.
- **KVPY Scholar:** Received scholarship offer to pursue research from Dept. of Science and Technology (G.o.I.) ('14-'15).

## INTERNSHIPS

- **Class 21-A Technologies Pvt. Ltd., Gurgaon:** *Content Development and Marketing for DoubtNut* (May, '18 - July, '18)
  - Led a team of 4 members to deliver improvised solutions for live math queries on a multi-lingual online learning platform.
  - Showcased fine **inter-personal and analysis skills** to investigate customer feedback and user activity to **improve product sales**.
  - *Expertised* in the use of **MS-Excel** and ASCII codes to improve user's learning experience on the platform.
- **Khel Khel Mein Foundation, New Delhi:** *Sports League Coordinator* (Nov, '16 - Jan, '17)
  - Supervised successful completion of a tournament intended for encouraging sports among underprivileged kids.
  - Coordinated matches and results of Football, Kho-Kho, and Surr for 850+ participants in the Delhi-NCR region.
- **GoodEd Technologies, New Delhi:** *E-Course Development and Marketing for learner.in's YouTube channel* (May, '16 - July, '16)
  - *Mentored* a team of 20+ students to weigh, summarize and record CBSE chapters from class X-XII.
  - Developed video lectures and corresponding quizzes and assignments for the continuous evaluation of students.
  - Consolidated notes and FAQs to make the material more student-friendly (**organized, concise, and easily graspable**).

## PROJECTS

- **Driver behavior analysis approaching a traffic intersection** (Dr. Ramachandra Rao Kalaga) (May, '17 - July, '17):
  - Analysed **Hidden Markov Model** and its application on the **prediction of human behavior** (speed up, steady or slow down), alerting drivers of possibilities of a collision/auto-drive based on driving pattern hence **reducing injuries and casualties**.
  - Worked on **MATLAB** to extract traffic data such as speed, flow, cycle length and average acceleration from video input.
- **Financial Model of Airports in Public-Private Partnership** (Prof. K. C. Iyer) (Nov, '17 - Dec, '17):
  - Compiled and screened **comprehensive revenue data** provided by Airport Authority of India to produce a databank.
  - Analyzed the existing financial model in the aviation sector in order to develop a **better suited model** for emerging Indian airports.

## IIT DELHI THESIS

**Title:** Characterization and analysis of **water recycling** facilities in NCR region. **Supervisor:** Dr. Arun Kumar  
**Journey:** Identification of water recycling applications suitable for domestic and industrial wastewater effluents.  
- *Analysing* water quality characteristics and comparing with global standards to determine need for additional treatment.  
- Identifying **potential improvements** in the treatment process and brainstorming for **optimizing the water recycled**.

## POSITIONS OF RESPONSIBILITY

- **Institute Secretary, Indoor Sports Club, BSA, IIT Delhi** (Apr, '17 - March, '18) :
  - Collated details of all the players and available facilities in the institute to **increase membership and accountability**.
  - *Hosted Freshers Week* and the *Inter-Hostel tournament* organizing **100+** matches for each of the 3 games.
  - Initiated a **customized ladder format tournament** for Chess for *improving exposure and scouting of talent*.
  - Led the team to a **Silver medal** in Spardha, **Gold** in BROSM and secured **4th** position at the Inter-IIT Chess Meet.
- **Overall Hospitality Coordinator, Delhi Poetry Fest, BRCA** (Jan, '18 - Feb, '18):
  - Collaborated with **Poet's Corner** to deliver the first national-level poetry festival at IIT Delhi witnessing **300+** poets.
  - **Orchestrated the working** of the team on the schedule for providing travel, lodging, and refreshment facilities for the guests.
- **Hostel Representative, Indoor Sports Club, BSA** (Apr, '16 - March, '17):
  - **Revised and enforced** a concrete framework of rules for all the games in an accessible and understandable format.
  - Organised **5+ institute level tournaments** for Chess, Carrom, and Cue sports (Pool/Snooker/Billiards).
  - Conducted 3 Intra-hostel tournaments to select a team of 13 players and led the team to **1 final and 1 semifinal**.

## EXTRA CURRICULAR ACTIVITIES

- **Hostel Maintenance and Mess Committee:** Contributed to the management of residence and mess facilities for **450+ students**.
  - Administered the **acquisition of essential facilities** which included procuring quotations, negotiations, and feedback from residents.
  - *Instrumental role* in lifting the **BHM Trophy ('16-'17)** awarded for best hostel management amongst 13 IIT Delhi hostels.
- **Hostel Football Team:** Led the team as **Vice-Captain ('16-'17)** and later got promoted to the **Captain ('17-'18)** of the team.



# KILLI SUJIT KUMAR



## ACADEMIC DETAILS

| Year | Degree / Board                              | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech in Civil Engineering                 | Indian Institute of Technology, Delhi | 8.112          |
| 2015 | Central Board of Secondary Education        | M.P.E.V Secondary School              | 95%            |
| 2013 | Andhra Pradesh Board of Secondary Education | Sri Prakash Vidyaniketan              | 9.7/10         |

## SCHOLASTIC ACHIEVEMENTS

- **SUMMER UNDERGRADUATE RESEARCH AWARD (2017)**
- **District Rank 2:** in Association for Improvement of Mathematics Education Examination conducted by **AIMED,2011**
- **State Rank 26:** in State Level Science Talent Search Examination (SLSTSE) conducted by **Unified Council,2012**
- **National Rank 50:** in South Indian Chemistry Olympiad (SIChO) conducted by **SIMO Education,2012**

## INTERNSHIPS

- **Hoi Food Concepts Pvt. Ltd , Gurgaon** (May, 2018 - June, 2018) :
  - Automation of Supply chain processes using **ZOHO** (A Data Integration Software) to increase their efficiencies which includes aggregating Inventory Management, Point Of Sale, Profit & Loss etc both at Warehouse and Sale point level
  - Developed an Android-based application linking **Android Studio** and **Google Firebase** services to automate Manpower Training & Database Management. The application is used primarily to enhance chef skills but also resulted in controlled attrition and enhanced work experience for low skilled workers
  - Created a Stand-alone KOT (Kitchen Order Taking) Generator with the help of **Python** programming environment to ease the daily operational challenges of retrieving data and optimizing costs at the same time

## PROJECTS

- **Calculation Of Total Evacuation Times of Academic Buildings (Prof. K. Ramachandra Rao)** : (July, 2017 - November, 2017)
  - Designed the CAD model of the Lecture Hall Complex (LHC), IIT Delhi and performed various simulations of Fire Evacuations using it, to obtain a mathematical model for the approximation of "Total Evacuation Times" of the same
  - Modeled and Validated the mathematical equations from the data obtained from the simulations performed
  - Developed a GUI based application using Java for extending its usage to generic models of "Academic Institutions"
- **Vanilla Pagerank (Prof. Saroj Kaushik) (Data Structures Project)**: (February,2018 - February,2018)
  - Implemented a Sparse Matrix for maintaining a database of the no. of links which exist between any two web pages instead of a Square Matrix to avoid wastage of memory using **Circular Linked-List** data structure
- **Market Data Publisher (Prof. Saroj Kaushik) (Data Structures Project)**: (March, 2018 - March, 2018)
  - Used the **AVL Tree** Data Structure for performing functions on the data, like storing the stock pairs (data units), deleting stocks, modifying the stock prices and splitting the stock units
- **Junctions & Roads (Prof. Saroj Kaushik) (Data Structures Project)**: (April, 2018 - April, 2018)
  - Built a Minimum Spanning Tree(MST) for a network of roads and junctions using **Prim's Algorithm** and implemented **Dijkstra's Algorithm** to find the shortest time path for the network having weighted nodes (nodes with weights)
- **Calibration of Macroscopic Continuum Models (Prof K. Ramachandra Rao) B.Tech Thesis** : (July, 2018 - Present)
  - Study the various differential equations that are involved in describing the various traffic flow parameters on a straight road
  - Design a **Matlab** GUI to visualize the simulation of the road traffic flow according to the equations with respect to time

## TECHNICAL SKILLS

- **Programming Languages** - C,C++,Java,Python
- **Softwares** - Android Studio,Matlab,ZOHO

## POSITIONS OF RESPONSIBILITY

- **BRCA Music Club Represenatative,Karakoram Hostel (2016-2017)**
  - Planned and implemented the music budget of Karakoram Hostel for the year 2016-17
  - Managed a "Club Committee" consisting of UG & PG students for the first time in the hostel history

## EXTRA CURRICULAR ACTIVITIES

- 3rd Position in Hindu Young World Quiz (Zonals) conducted by **The HINDU** and Velammal Educational Trust,2012
- **Maintenance Committee Member(2016-2017)**
  - Coordinated in creating the Maintenance Budget of Karakoram Hostel
  - Assisted in the implementation of the budget and helped Karakoram to win the Board of Hostel Management trophy
- Presented with the **Intra-hostel Award** for recognition of significant contribution in Cultural Activities of the Hostel,2017
- **Hobbies and Interests**-FIFA, Call of Duty, Following European Football and Reading Novels



# MITUL MITTAL

## ACADEMIC DETAILS

| Year | Degree / Board              | Institute                             | GPA / Marks(%) |
|------|-----------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Civil Engineering | Indian Institute of Technology, Delhi | 7.483          |
| 2015 | CBSE                        | A.N. International School, Bijnor     | 94.4           |
| 2013 | ICSE                        | St. Mary's Senior Sec. School, Bijnor | 95.2           |

## SCHOLASTIC ACHIEVEMENTS

- National top 1% out of 37000+ applicants in **NSEP** by **IAPT**; Awarded **Certificates of Merit** for **NSEA, NSEC ('14 - '15)**
- **Department Award:** Received significant contribution award from Civil Engineering forum for distinguished service ('16 - '17)
- Awarded **Science Student Honor** by **Department of Science and Technology, Uttar Pradesh ('13 - '14)**
- Achieved **International rank 66**, State rank 3 in **iOM ('13)**; Secured **International rank 320**, State rank 18 in **iOS ('13)**
- Secured **All India Rank 133** in National Level Science Talent Search Examination ('14); *Kota city topper*

## INTERNSHIPS

- **Market Research Intern, Zinnov Management Consulting** (Nov,17 - Jan,18): *Received letter of recommendation Determined potential sectors of growth for Microsoft's Azure Cloud Computing Platform & Services across 13 verticals*  
-Conducted primary & secondary research to **categorize ISVs** (Independent Software Vendors) into value chain components  
-Performed deep-dive profiling of those ISVs based on cloud/on-premise deployment and cloud vendor for **275** accounts  
-Collated & analyzed final database of **15000+** ISVs & evaluated prospective verticals for future investment & expansion
- **National Rural Roads Development Agency** (May,18 - July,18): *Under direct supervision of Smt Alka Upadhyay, DG Increased connectivity to rural habitations by reconstructing Dijkstra's Algorithm to determine routes & prioritize them*  
-Delivered modifications to website layout by **identifying performance bottlenecks** and proposed additional features  
-Enhanced the current GIS framework by using **ArcGIS** software, making it compatible for planning of PMGSY Phase 3
- **Market Research Intern, MobiKwik Digital Wallet** (Nov,16 - Dec,16): *India's largest independent mobile payments network*  
-Organised **12+ 'Go Cashless' campaigns** in NCR to promote cashless transactions after 2016 banknote demonetization  
-Increased outreach by collaborating with **550+** petrol pumps affiliated with **IOCL, HPCL and BPCL** in major Indian cities

## PROJECTS

- **Analysis of traffic flow equilibrium**, Transportation Research & Injury Prevention Programme (May,17 - July,17):  
*Replicated traffic conditions by improved and newly designed single & multi regime models using Excel Solver analysis*  
-Identified drawbacks of previous models like Greenshield & Greenberg and their parameters of higher-order continuum  
-Derived relationship between relaxation time coefficient & simulation time step using **Minitab & IBM SPSS Statistics**  
-Analysed driver reaction coefficients using *Linear Regression* and *Curve Estimation* for heterogeneous traffic flow

## POSITIONS OF RESPONSIBILITY

- **Nucleus Placement Coordinator, Training and Placement Cell** (April,18 - Present):  
-Leading a team of **15 members** to contact and coordinate with companies for campus recruitment of **400+** students  
-Establishing connections with Indian and overseas companies from sectors such as *technical, finance and R&D*  
-Liaising with companies, students and placement cell in order to **maximize benefits** to all the stakeholders involved
- **Core Team Member, Delhi Poetry Festival, Season 5, BRCA** (Oct,17 - Feb,18):  
-Ideated & organised **India's largest** stand-alone poetry festival for **the first time in IIT Delhi**, conceptualizing from scratch  
-Conducted nation-wide **Indian Poetry League** witnessing **300+ poetry performances** at **4 parallel venues** over 3 days  
-Led a **3-tier** team of **50** executives to administer **60+** music & poetry events covered by 10+ TV/print media companies
- **Mess Secretary, Karakoram Hostel, BHM** (April,17 - April,18):  
-Led **38** staff members & a committee of **30**; Instrumental in winning the prestigious **BHM Second Runner Up Trophy**  
-Managed the account & statistics of mess while optimizing use of resources and closely monitoring accurate billing
- **Events Coordinator, Sportech'18, BSA** (Oct,17 - Feb,18):  
-Planned and monitored infrastructure and logistics to ensure end to end execution of **30+ events** with **150+** participants  
-Led a **3 tier** team to execute all athletics events' witnessing participation from **16 colleges** across **4 venues** simultaneously  
-Raised resources & managed participation for **17** major sports tournaments witnessing more than **1500** sportspersons

## EXTRA CURRICULAR ACTIVITIES

- **Athletics: Captain ('17), Vice-Captain ('16)**, Hostel team; Awarded **outstanding contribution** to Hostel Management ('17)  
-Inter IIT Sportech'17: Bronze medal, anchor leg in relay 4x100m; **2 Silver, 1 Bronze medals** in sprints, Inter-hostel ('16-'17)
- **Sports League Coordinator, KKM Foundation**, New Delhi (Dec,16 - Jan,17):  
-Worked for successful completion of a **structured tournament** for encouraging sports among underprivileged kids  
-Organised **weekly playoffs & finals** in Football, Kho-Kho & Surr for **1000+ participants per day** in different zones of NCR



# NAVEEN CHOUDHARY



## ACADEMIC DETAILS

| Year | Degree / Board              | Institute                             | GPA / Marks(%) |
|------|-----------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Civil Engineering | Indian Institute of Technology, Delhi | 7.097          |
| 2014 | CBSE                        | Bikaner Boys School                   | 83.4%          |
| 2012 | CBSE                        | Bikaner Boys School                   | 8.4/10         |

## SCHOLASTIC ACHIEVEMENTS

- Publication:** Authored '*Bond market development in India*', published in a peer-reviewed journal **IJAMR'18; IF: 3.57** (2018)
- International Conference:** Paper accepted through **blind peer review** process in **ITBI-conference** organized by **ASEN** (2018)
- Minor area:** Pursuing a minor degree in **Business Management** at DMS, IIT Delhi; Completed 12/20 credits (2018-19)
- 6 sigma Certification:** Completed a diploma course in the *Introduction to quality management using six sigma*; scoring **84%** (2018)
- National Science Olympiad (NSO):** Secured **International rank 191** organized by Science Olympiad Foundation (2012)

## INTERNSHIPS

- The University of Auckland, New Zealand** (May 2017 - Jul 2017): Study of rocking motion for low damage design of structure
  - Simulated actual source **earthquake** on the *Shake Table* machine; Experimented with the different base and model-structures
  - Analyzed the experimental data for a structure under seismic loading using **t-test method** for base upliftment & time history
  - Developed an **empirical equation** for calculating the structural *dynamic time period response* due to the ground shaking
- NITI Aayog** (Jun 2018 - Jul 2018), *Office of CEO* : Worked on 3 live projects of Government of India
  - Developed roadmap for series of crowdsourcing method for *Pune smart city mission*; Proposal forwarded to **MOHUA**
  - Executed a 2 stage national level hackathon; Discovered potential **82%** reduction in time for certificate verification on **blockchain**
  - Modeled **agribusiness** demand forecasting factoring 24 **technology interventions** and 11 **investment opportunities**

*Received Letter of Recommendation from OSD to CEO for impact on national collaborative project*
- Employees' State Insurance Corporation** (Nov 2017 - Jan 2018): Worked in line with the '*Ministry of Labour & Employment*' visions
  - Explored potential **6%** increase in **insurance funds**; **Initiated** a proposal for aiding policy change for an organization
  - Examined the past 24 months data with **bar & whisker plot**; Scheduled the project visits by developing the **Gantt chart**

*Received Letter of Recommendation from Director (Shri Gulab Chand) for outstanding work accomplishments*

## POSITIONS OF RESPONSIBILITY

- Co-Overall Coordinator, Student Incubation Centre (eDC IIT Delhi)** (September, 2018 - Present) :
  - Spearheading a **3-tier team** for all major strategic decisions and policy-making for the activities in SIC round the year
  - Proposed **incubation work-spaces** for students of IIT Delhi to accelerate pre-incubation activities and startup ideation
  - Established viral outreach **media plan** via FB app; coordinating the verticals & planning of year-long incubation activities
- Coordinator, Finance & Administration, Entrepreneurship Development Cell** (Aug 2017 - Aug 2018) :
  - Drafted a **white paper** for senate *IITD* facilitating the formation of a new Board for Entrepreneurship and Student Incubation Centre
  - Revamped the structure of e-summit to organize **BECON'18**; Administered the **effective distribution** of funds and logistics
  - Organized **TEDx talk, GES, Blockchain hackathon, HPI 2017** hosting **C-level executives** of NITI Aayog, UBER, Ethereum, Airtel, etc.
- Executive, Marketing, Entrepreneurship Development Cell** (Oct 2016 - Apr 2017) :
  - Introduced the **leadership awards** & Entrepreneurship Cell's first ever **social campaign** on Women Entrepreneurship
  - Set up the Entrepreneurship Cell of **IIT Ropar**; Procured sponsorship; Reduced expenditure by **60%** via in-kind association
- Vice Captain, Athletics** (Apr 2017 - Apr 2018): Conducted **talent identification practices and inculcated** a culture of field events
  - Increased the **participation** of undergraduate and postgraduate students at the institute level and inter-hostel competition
  - Insured regular conditioning of the team coupled with competitive practice matches for **18 field sports** in athletics

## EXTRA CURRICULAR ACTIVITIES

- Business Case Activities:** National winner in several pan India inter-college events
    - Winner, 1st position in a 2-tier **Business plan competition**-Disrupt organized by EDC, **IIT Guwahati** (2018)
    - Winner, 2nd runner-up in the **Business Case study competition-Decrypt'17** organized by E-Cell, **IIT Kanpur** (2017)
    - Winner, 2nd runner-up in the **Case study competition-Stimuli'18** organized by The Strategy Club, **DTU** (2018)
  - Sports:** Represented hostel across 3 different sports
    - Gold Medal, **Athletics-Long jump**, Inter Hostel General Championship organized by Board for Sports Activities (2017-18)
    - Silver Medal, **Volleyball**, played at the *Libero* position, Inter Hostel General Championship - among 11 hostels (2017-18)
    - Bronze Medal for 2 consecutive years in **Football**, played at the right-back position, Inter Hostel General Championship (2015-17)
    - Bronze medal, **Athletics-Hundred meters**, Freshers Sports Week organized by Board for Sports Activities (2015-16)
  - Finalist**, Vismirti, **Rendezvous'17 IITD**, first institute mime team to participate at a national level mime competition (2017)
  - Student Mentor, BSW:** Groomed 6 freshers in pursuit of academics & extra-curricular activities in new environment (2017-18)
- Awarded **special recognition** by the Warden, Kumaon Hostel for significant contribution in Hostel Management (2017-18)



# NAZISH UMAR ANSARI



## ACADEMIC DETAILS

| Year | Degree / Board                       | Institute                             | GPA / Marks(%) |
|------|--------------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Civil Engineering          | Indian Institute of Technology, Delhi | 7.269          |
| 2014 | Central Board of Secondary Education | TATA D.A.V. Public School,Sijua       | 94.60%         |
| 2012 | Central Board of Secondary Education | TATA D.A.V. Public School,Sijua       | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- **National Stock Exchange Certification:** Awarded for the successful completion of NCFM *Module on Financial Market*, 91% (2018)
- **International Olympiad of Mathematics:** Secured State Olympiad Rank **12** in iOM conducted by SilverZone Foundation (2011)
- **International Informatics Olympiad:** Secured State Olympiad Rank **52** in iiO conducted by SilverZone Foundation (2010)
- **Certificate for Merit :** Awarded for consecutive Academic Excellence in Examinations conducted by DAV CMC & AISSCE ('10-'14)

## INTERNSHIPS

- **Delhi Metro Rail Corporation Limited** (June,2017-July,2017): *CPM-06 Corridor, Phase-3 Underground Construction*
  - Examined **Quality Assessment Methodologies** of the Construction Equipments used at the construction site and Batching Plant
  - Inspected the **air circulatory system** of the tunnels and the **ventilation mechanism** operating in the station concourse area
  - Multiple surveying visits to look up the **structural designing** of the Metro Station evaluating different functional elements
  - Documented the site machinery and construction technique; Interacted with workers on personal safety mechanisms

## PROJECTS

- **Biological Remediation of Heavy Metal & Organic Contamination in Soil:** **Prof. G.V.Ramana** (June, 2018 - present) :
  - Analyzed the elemental contaminants in dissolved soil filtrate inspecting instrumental detection limit applying **ICP-MS & MP-AES**
  - Monitored the biological augmentation of soil through decrements in **carcinogenic level** using contaminant-specific organisms
  - Documented a literature review on the major soil contaminants in soil matrix & methods to be applied for the treatment
- **Modal Choice Analysis of Multimodal Transit System Employing Logit Model :** **Prof. Manoj M.** (Dec, 2016- Jan, 2017) :
  - Inspected the transit data to calibrate and validate the application of the assignment model using **BIOGEME** software
  - Forecasted the alternative transit system for **probabilistic** travel demand presenting an economically viable transit mode
  - Estimated a **Logit** based transit route choice model using survey data; Analyzed travel behaviour of user in a **dynamic** network

## POSITIONS OF RESPONSIBILITY

- **Vice President (Operations), Delhi, BloodConnect Foundation** (Jan, 2017 - Jan, 2018) : *Organizing committee member, Annual Event BloodConnect is India's **largest** student run NGO in the field of blood donation with around 350 volunteers from all over India*
  - Led a team of **4** Managers and **80+** volunteers in Delhi-NCR collaborating with **Corporates, Colleges & RWAs**
  - Assisted in organising **50+** Blood Donation Camps and **20+** Awareness Sessions to spread the cause of blood donation
  - Handled **50+** emergency requests & attended **25+** camps; Coordinated with Govt. Blood Banks to meet blood requirements
  - Recruited volunteers from multiple colleges across Delhi-NCR; trained **25** interns managing the Summer Internship Programme
- **Director Stage Play, Dramatics Club** (April, 2017- March, 2018): *Trained 30 actors organizing professional theatre workshops*
  - Winner, Award for the **Best Set Designing** for Neil Simon's "**Fools**" adaptation named "*Mix Veg in Hot Garlic Sauce*"
  - Second Runner Up, National Level Stage Play Competition in Rendezvous'17 managing **direction** & other infrastructural logistics
  - Directed, an adaptation of **Motera ka Satyagrah** and **Eak Mamoli Aadmi** on BRCA orientation leading a contingent of 20 actors
- **Coordinator, Open House** (March, 2018 - April, 2018): *Led 2 Tier team of 20 students across 13 Departments managing logistics*
  - Strategized and executed the timely disposition of infrastructural and other logistical requirements for over **750** projects
  - Efficiently collaborated with vendors & coordinators of **13** departments & **11** centres ensuring optimal resource allocation

## EXTRA CURRICULAR ACTIVITIES

- **Dramatics:** *Directed, scripted & acted in 20+ consecutive performances at national and institute level over span of 4 years*
  - National Level:** **Finalist**, National Stage Play Competition, among 6 selected from participating colleges, Rendezvous'16
  - Inter IIT Cultural Meet '17: Overall Winner; Actor,** "Inter IIT Stage Competition" performed *Deluxe Hair Cutting Saloon*
  - First Runner Up**, Story Writing Competition organized by **Maatribhasha**, stood **2nd in Open Category** among participating colleges
  - Institute Level :** Podium finish in 7 consecutive Institute Events; Awarded **Best Fresher** by Dramatics Club ('16,'17)
- Winner, Inter Hostel Stage Play, Actor (2017); **First Runner-Up**, Inter Hostel Street Play, Actor, Director & Playwright (2016)
- Winner, Inter Hostel Mime Play Competition, Actor (2016); **Second Runner-Up**, Inter Hostel Stage Play, Actor & Playwright (2016)
- Winner, Inter Hostel Mono Act Competition, Director (2018); **First Runner-Up**, Inter Hostel Mime Competition, Actor (2017)
- Winner, Dramatics Club Trophy, BRCA; Maximum podium finishes & highest cumulative points among all 13 hostels (2017)
- **Literary and PFC: Quizmaster** in Inter Hostel *Chakravyuh* Hindi Quiz Competition organised by Hindi Samiti Club (2018)
  - Winner, Inter Hostel *Anuvaad* Competition (2017) ; **First Runner-Up**, Inter Hostel Freshers Hindi Quiz *Mirch Masala* (2015)
- Awarded **Significant Contribution to Cultural Activities & Best Fresher** for cultural excellence in hostel activities



# NIKHIL CHAUHAN



## ACADEMIC DETAILS

| Year | Degree / Board              | Institute                             | GPA / Marks(%) |
|------|-----------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Civil Engineering | Indian Institute of Technology, Delhi | 8.945          |
| 2014 | CBSE                        | Priyanka Modern School, Dhampur       | 94%            |
| 2012 | CBSE                        | Priyanka Modern School, Dhampur       | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- **Department Rank 3:** Among 105 students at the end of the sixth semester, Civil Engineering Department, 2018
- **IITD Merit Award:** Conferred scholarship **4 consecutive times** for being ranked amongst **top 7%** students, 2016-2018
- **Summer Undergraduate Research Award:** Earned SURA for extensive research, fully funded by IRD, IIT Delhi, 2017
- **UG Teaching Assistantship:** **1 of the 3** students in Civil Engg. Dept. to be granted semester long task, 2018
- **Publication:** Chauhan N. et al, *5-Point DuPont Analysis of Household & Personal Product Companies*, IJAMR, accepted, 2018
  - Analyzed 7 BSE200 listed companies, investigating correlation between 'Cash Conversion Cycle' and 'Return On Equity'
- **International Publication:** Chauhan N. et al, *Analyzing transfer facility attributes at Metro Stations in Delhi*, IJSR, accepted, 2018

## INTERNSHIPS

- **Data Analyst | DIMTS Ltd., Delhi** (May, 2018 - July, 2018) : *Rationalization & Optimization of 130 bus routes in Delhi Project Solves problems of low frequency, inadequate coverage & crowding for better efficiency of the transport system*
  - Extracted, Transformed and analyzed the ETM and AVL dataset using **Oracle Web developer** and **R programming**
  - Generated the predictive model for Ridership and Revenue generation using **Neural networks** and **Linear regression**
  - Created interactive **dashboards** which visualised selected KPIs helping executives create efficient route mechanisms

## PROJECTS

- **Analysis of Transfer facility attributes at Metro Stations(Prof. Geetam Tiwari) | SURA** (April, 2017-Oct, 2017) :
  - Employed **TOPSIS** method to analyze data collected from 600 Metro Commuters based on different Trip characteristics
  - Created an Excel Tool using **VBA Macros** to generate Automatic results by input Matrix simplifying the overall analysis*Received Summer Undergraduate Research Award and stipend for 8 weeks by IRD, IIT Delhi to accomplish the project*
- **Study of Development parameters for India using Indices Rankings (M.P. Gupta, HOD, DMS)** (Nov, 2016-Feb, 2017):
  - Conducted secondary research to collect past rankings of **10 years of 24 indices** from World Bank, WEF, UNDP reports
  - Trend Analysis of Indian Rankings **benchmarked** with top 5 countries in each index & BRICS countries for comparison

## POSITIONS OF RESPONSIBILITY

- **Secretary, Hindi Samiti, BRCA, IIT Delhi** (April, 2017 - April, 2018): Led a team of 13 Representatives & 5 Panel Members
  - Formulated a well-apportioned **budget & event structure**; spearheaded execution of 15+ competitive events & workshops
  - Devised comprehensive **pre-fest strategy** including various offline events to increase expected footfall in Rendezvous
  - Organized Hasya Kavi Sammelan, **headliner of Rendezvous'17** featuring *Rahat Indori*; biggest crowd puller after pronites
  - Collaborated with Poetry Couture and Maatribhasha to **sponsor, judge and publicize** the events during Rendezvous
- **Representative, Hindi Samiti, BRCA, IIT Delhi** (April, 2016 - March, 2017): Elected unanimously by 450+ residents
  - Collaborated with team to expedite **marketing, management** and **publicity** of club activities and competitive events
  - Managed and co-ordinated various **Inter-College competitive events** during Rendezvous'16 and across the year
- **Convener, CAIC:** Elected to the **highest academic body** of IIT Delhi to represent a batch of 100 students, 2018-2019
  - Actively interacted with the **administration** to raise and resolve issues pertaining to course curriculum & degree requirement
  - Organised **Departmental Sessions** for guiding the students for academic projects and Internship and Job Opportunities

## EXTRA CURRICULAR ACTIVITIES

- **Cultural & Technical:** Exemplary performance in National level Technical & Cultural Events
  - **Overall Winners**, among 21 IITs at **Inter IIT Cultural Meet** held at IIT Kanpur, Led Hindi Samiti to win two gold medals (2017)
  - **Runner-up, Mirch Masala**, Literary Quizzing Competition (2015); **Runner-up, Shabdvyuh**, Hindi Word Game (2016)
  - **Runner-up, Best Stall Trophy**, BHM Night, Conceptualized and led team to execute stall themed Deforestation (2016)
  - **Quizmaster, Chakravyuh**, National level Bollywood quiz held at North India's largest cultural fest **Rendezvous** (2017)
  - **Runner-up, Capitalist Conundrum**, National level strategy competition held at IIT Delhi's annual technical fest **Tryst** (2017)
  - **2nd Runner-up, Mock Stock**, National level trading competition held at IIT Delhi's annual technical fest **Tryst** (2017)
- Awarded **Face of Kumaon** for exemplary work at Institute Level & holding key positions in BRCA from Kumaon Hostel
- **Social Ventures:** Worked for Social Welfare which includes NAB, Tree Plantation Drive, RTE, RTI & Stem Cell Awareness
  - **NAB-Digital Talking Book Library Program:** Mentored blind students and Worked on text to speech **OCR** software
  - **Project Eklavya, RTE:** Envisioned to enroll **1 million** underprivileged students in high-quality education by year 2020
  - Spread awareness of **Sec. 12(1)(c) under RTE Act** through field trips & digital media among underprivileged society



# PARAS BHAISSORA

## ACADEMIC DETAILS

| Year | Degree / Board              | Institute                             | GPA / Marks(%) |
|------|-----------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Civil Engineering | Indian Institute of Technology, Delhi | 8.084          |
| 2014 | CBSE                        | Army Public School, Ranikhet          | 93%            |
| 2012 | CBSE                        | Army Public School, Ranikhet          | 9/10           |

## SCHOLASTIC ACHIEVEMENTS

- **Summer Undergraduate Research Award (SURA):** Research paper accepted for **International publication in IJSER** (2017)
- **Minor Degree:** Pursuing minor in **Business Management** from Department of Management Studies; completed 12/20 credits (2018)
- **International Publication:** Authored research paper on ***Bond market development in India***, published in IJAMR (2018)
- **NSE Certification:** Awarded NSE "**Equity Derivatives** Certification" by NISM (a subsidiary of **SEBI**) (2018)
- **Credit Suisse HOLT Valuation Challenge:** Cleared **2 stages**, unlocked access to HOLT Lens & Investment Pitch (2018)
- **HPAIR Conference:** Selected globally for ***Harvard Project*** Conference in Malaysia, largest in Asia-Pacific region (2018)
- **CBSE Merit Certificate:** Awarded for being in **top 0.1%** students nationwide in Chemistry, scored **100%** marks (2014)

## INTERNSHIPS

- **Schlumberger Asia Services Ltd., Mumbai:** (May 2018 - Jul 2018)
  - Optimized construction schedule of **40+ activities**, reducing overall project duration by **10%** using tools like NPL, CPM
  - Analyzed and quantified material requirements; reduced wastage by **75% (~INR 3 Lakhs)** across construction value chain
  - Improved project cost effectiveness through enhanced **inventory management** by deploying ABC and S-curve analysis

*Received Letter of Recommendation from Engineering Manager for successful completion of 3 fields & HQ based projects*
- **Maruti Suzuki Pvt. Ltd., Gurgaon:** (Dec 2016 - Jan 2017)
  - Conceptualized a plan of ducts layout based on topology optimization method; decreased cost by **18% (~INR 2.5L)**
  - Established and incorporated an integrated evacuation plan in plant; resulted in **30% reduction** in escape time
  - Developed **ergonomic** design for workstations and plant's staircases on **AutoCAD** as per OSHA Standard 1910.24

*Received Letter of Appreciation from Mr Diwan Singh (AM People Development) for excellent performance in projects*

## POSITIONS OF RESPONSIBILITY

- **Overall Coordinator, Entrepreneurship Development Cell IIT Delhi** (Sep, 2018 - Present)
  - Spearheading a **4-tier** team of Co-OCs, **70+** coordinators & executives across **8 divisions** to conduct entrepreneurial activities
  - Planned & formulated **social entrepreneurship** vertical. Launched Youth for **Kerala campaign** through collection drive
- **Core Team Member, Entrepreneurship Development Cell:** (May 2018 - Sep 2018)
  - Spearheaded a team of **40+** volunteers to conduct **India's largest** 3 days long Hackathon in collaboration with **NITI Aayog**
  - Procured a **significant** sponsorship amount to organize "A Talk Show", to incubate entrepreneurial culture among Indian youth
- **Finance & Administrative Coordinator, Entrepreneurship Development Cell:** (Aug 2017 - Apr 2018)
  - Led 30+ volunteers team to organize **TEDx** talk & invited C-level executives like UBER CEO, Director Stanford, Zoomcar CEO
  - Drafted a **white paper to Senate IIT-D** aiding policy formation for a new board for entrepreneurship and student incubation center
- **Maintenance Secretary, Board for Hostel Management:** (Apr 2017 - Mar 2018)
  - Gained management buy-in to raise budget by **110% (highest ever)**, utilized investments to improve hostel aesthetics
  - Developed an **online customer interface system** for sourcing student feedback associated with hostel infrastructure
- **CES Executive:** (May 2016 - Apr 2017) Awarded **Outstanding Contribution** to Civil Engineering Society IIT Delhi

## EXTRA CURRICULAR ACTIVITIES

- **Volleyball:** Represented IIT Delhi in Volleyball over **3+ Inter College** Tournaments and **3+ Intra** College Tournaments
  - Participated in **52nd Inter IIT Sports Meet** at IIT Madras; played as leading counter spiker in all the matches (2017)
  - Winner, **Gold Medal** in annual sports meet, **Breeze'16** in **Shiv Nadar University Noida** among many Delhi colleges (2016)
  - Winner, **Gold Medal** in Volleyball Tournament IIT Delhi; **significantly contributed** as leading counter spiker (2016)
  - Winner, **Gold Medal** among teams from all North Indian colleges in **Inter IIT Sportech**, IIT-D Annual Sports fest (2017)
  - Winner, **Gold Medal** in Inter-hostel Volleyball League contributed significantly as team **Vice-Captain**; to win finals (2017)
  - Winner, **Silver Medal** in Interhostel Volleyball League; **outstanding contribution** in all matches to reach finals (2018)
  - Winner, **Bronze Medal** in Inter-hostel Volleyball League, only one to get selected among hostel's freshers (2016)
  - **Merit Certificate:** Awarded certificate of merit by BSA IIT-D for **excellence performance** in Freshers Sports Week (2016)
- Winner in **B-Plan** competition organized by The Strategists and Entrepreneurship Club at BML University (2018)
- Runner Up in 'Capitalist Conundrum' strategy based competition at **TRYST'17**, North India's largest Tech fest (2017)
- Runner Up in **Decrypt'17**, a case study competition, held at Esummit'17 organized by E-Cell **IIT Kanpur** (2017)
- Runner Up in **EXCUBERANCE'18**, a management based case study competition organized by **DTU** (2018)



# PARTH



## ACADEMIC DETAILS

| Year | Degree / Board                       | Institute                             | GPA / Marks(%) |
|------|--------------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Civil Engineering          | Indian Institute of Technology, Delhi | 6.918          |
| 2015 | Central Board of Secondary Education | N.C Jindal Public School, New Delhi   | 95%            |
| 2013 | Central Board of Secondary Education | N.C Jindal Public School, New Delhi   | 9.2/10         |

## SCHOLASTIC ACHIEVEMENTS

- **International Rank 1026** in International French Language Olympiad organized by Silverzone.
- Awarded **Certificate of Acknowledgement** from NIIT IT Wizard Curriculum, consecutively from 2003-13.
- Awarded **Scholar** Badge for academic excellence in School.

## INTERNSHIPS

- **Ernst & Young LLP, Noida** [June, 2017 - July, 2017]
  - Worked on the project **Public Private Partnership on City Roads**.
  - Involved detailed analysis and research on existing PPP on city roads across the world to identify its application on Indian city roads.
  - **Conceptualized** the plan for **Tourism and Riverfront development zone** in the YEIDA Raya Urban Centre in India.
- **Sarthak Prayas, Punjabi Bagh, New Delhi** [May, 2017 - June, 2017]
  - Worked at Sarthak Prayas, a NGO which spreads blood donation awareness, providing education to underprivileged children.
  - **Educated children** at the various education centers of Sarthak Prayas.
  - **Spread awareness about blood donation** and helped in **administrative work**.

## PROJECTS

- **Influence of attitudinal factors in selecting a transit mode** (Prof. Manoj M, IIT Delhi) [June, 2018- ]
  - **Formulated a psychometric test** to capture the perception of students among various notable institutions.
  - Involves detailed **statistical analysis and econometric modelling** to narrow down the factors.
- **Construction Management** (Prof. J. Uma Maheshwari, IIT Delhi) [January, 2017- April, 2017]
  - **Conceptualized and coded** an application that generates Line of Balance(LOB) diagram.
- **Image Morphing** (Prof. P.R. Panda, IIT Delhi) [April, 2016- May, 2016]
  - **Created a morphing effect** with two facial images as input and returned a video morphing from the first to second.
  - Implemented using **triangulation algorithm** and **openCV Library**.
- **Image Processing** (Prof. P.R. Panda, IIT Delhi) [February, 2016- March, 2016]
  - Implemented method of smoothening images using **averaging filter algorithm**.
  - **Pre-processed** the image and implemented **edge detection algorithm** (Course Project).
- **Product Realization by Manufacturing** (Prof. Sunil Jha, IIT Delhi) [September, 2015 - November, 2015]
  - **Manufactured a hydraulic crane** using manufacturing processes in engineering workshop (Course Project).
- **Design and Analysis of Civil Structures** (Prof. Suresh Bhalla, IIT Delhi) [August, 2018- ]
  - **Executing structural analysis, design and detailing of Steel and Reinforced Concrete Structures** (Course Project).

## TECHNICAL SKILLS

- C/C++, SQL, HTML, XML, CSS, R
- MATLAB, AutoCAD, Staad Pro, Stata, SPSS Statistics

## EXTRA CURRICULAR ACTIVITIES

- **Foreign Language: French**
  - Proficient in **Level 3** as per ILR Scale.
- **3D Printing** - Introduction to Engineering (Prof. P. V. Madhusudhan Rao)
  - Participated in 3D printing workshop and **designed** a key chain on AutoCAD which was **selected for 3D Printing**.
- **Social Endeavors:**
  - In Association with Sarthak Prayas, an NGO devoted to blood donation and education for underprivileged children.
- **Art and Craft:**
  - **Awarded** certificates of merit and participation in various art and craft competitions at inter and intra school level.
- Associated with **National Sports Organisation, IIT Delhi**.
  - Played football and basketball.
- **Interests:**
  - Reading editorials, Internet Research, Football fanatic, Hip-Hop/Rap Music enthusiast, Sketching, Gaming.



# R V PRANAY KUMAR REDDY



## ACADEMIC DETAILS

| Year | Degree / Board              | Institute                             | GPA / Marks(%) |
|------|-----------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Civil Engineering | Indian Institute of Technology, Delhi | 8.224          |
| 2015 | Telangana State Board       | Narayana Junior College               | 98.6%          |
| 2013 | CBSE                        | Kendriya Vidyalaya, Mysore            | 10             |

## SCHOLASTIC ACHIEVEMENTS

- International Publications:** Reddy, P, et al. 'Fiscal Austerity Policies and their Implications' in IJSR Publication (2018)
  - Reddy, P, et al. 'Freedom of Speech in Indian Context' in International Journal of Advanced Multidisciplinary Research (2018)
- First Indo-French Knowledge Summit:** 1 amongst 3 to represent IITD at an interactive session with the **French President** (2018)
- Department Award:** Conferred by Civil Engg. Society for significant contribution in organizing talks by eminent personalities (2017)
- CPWD Scholarship:** Awarded by CPWD Co-op Society for receiving highest possible grades in Secondary Examination (2014)
- Certificate of Merit:** Awarded by CBSE for outstanding performance & obtaining **A1 grade** in all 5 subjects in AISSE (2013)

## INTERNSHIPS

- University of Auckland, New Zealand** (May, 2018 - July, 2018): *Analysis of cold-formed Steel portal frame*
  - Conducted the **first ever** investigation of moment resisting joint configuration of steel portal frame used in NZ and Australia
  - Devised innovative construction methodology; enhanced **ultimate strength** by **250%** with **30%** reduced **assemblage time**
  - Analysed the effect of **seismic loading** on more than **20 models** to draw recommendations for SteelX client proposal  
*Received Letter of Recommendation from Supervisor for outstanding quality of work & exceptional research temperament*
- Tractebel Engineering Pvt Ltd, Gurgaon** (Dec, 2017 - Jan, 2018): *Tariff Determination for Hydropower plant*
  - Estimated the cost of capital, **NPV** and Internal Rate of Return to compute the potential **RoI** of a greenfield investment
  - Performed **cost-benefit analysis** of depreciation methods viz. St. line & Double declining to maximize short-term **tax benefits**
  - Developed model to predict rates by incorporating **operations research** tools; integrating delays and unplanned expenses  
*Received Letter of Appreciation for excellent performance and commendable accomplishments within limited time frame*
- Central Public Works Department** (May, 2017 - July, 2017) : *Structural Analysis and Design*
  - Developed preliminary and **detailed estimates**; critical for projecting the **investment costs** involved in the construction
  - Analysed and designed **3+** Concrete structures; *Received LOR for impeccable applicability and inquisitive approach*

## POSITIONS OF RESPONSIBILITY

- Finance and Administration Coordinator, Rendezvous 2018** (Nov, 2017-Present):
 

*Spearheaded a 2-tier team of 15 to procure & manage funds; implemented campaigns to meet brand projections for the festival*

  - Broadened marketing agenda by pitching multiple **payment gateways** and wallets, introduced **cashless** dimension to fest
  - Administered cash flows to meet the monetary requirements with **50+** coordinators for **200+** workshops, and pronites
  - Structured online permissions & **bill accepting portal** used during the fest by team of **200+** students and **100+** workers
  - Mobilized marketing efforts and demarcated clear deliverables to foster **long-lasting relationship** with different sponsors
- Marketing Coordinator, Alumni Affairs & International Programmes** (Apr, 2017-Apr, 2018):
  - Organized 2-tier **fund raising** hostel level meetups to secure donations from Alumni Network for hostel development
  - Initiated and managed first of its kind new series **Day with Alumni**; aimed at connecting students with illustrious Alumni
- Hostel Representative, Students Affairs Council** (Apr, 2017 - Apr, 2018):
  - Launched **Student-Alumni mentorship** program; Instrumental role in opening of cafeteria & other food outlets in Institute
  - Assisted in establishing the **Centralized No Dues** System and major reforms like increasing accountability of UG Section

## EXTRA CURRICULAR ACTIVITIES

- Cultural Activities :**
  - Winner**, Inter Hostel Dance Video Making Competition, Director & Script Writer, amongst 13 competing hostels (2018)
  - Winner**, Inter Hostel Mime Competition, Director and Actor; 'JugalBandi' & 'Plan-X' amongst 26 competing teams (2017)
  - Winner**, Inter Hostel Music Video Making Competition, Production Head, conducted annually by Photography Club (2016)
  - Runner up**, IITD Freshers Asian Parliamentary Debate; Biggest annual freshers parliamentary debate competition (2015)
  - 2nd Runner-up**, Inter Hostel Music Movie Making Competition; Director and Editor; amongst 13 competing hostels (2017)
  - 2nd Runner-up**, Inter Hostel Street Play Competition, Actor; Organised rigorous workshops for amateur actors (2016)
  - 2nd Runner-up**, Inter Hostel Street Play Competition, Director & Editor; Led hostel to three consecutive podium finishes (2015)
  - 2nd Runner-up**, Inter Hostel Street Play Competition, Director & Editor; **Runner-up**, Overall drama trophy, Shivalik (2018)
- Social Endeavours :** Collaborated with Board for Student Welfare and National Service Scheme for welfare activities
  - Conducted teaching for **underprivileged kids** focused on holistic development by teaching through worksheets & activities
  - Raised funds from **20+** graduating students from Shivalik Hostel for BSW Grants fund-which is given to needy students
  - Awarded trophy for **significant contribution** to the Board for Student Welfare, for fostering welfare activities in the institute



# RAJAT YADAV



## ACADEMIC DETAILS

| Year | Degree / Board                               | Institute                             | GPA / Marks(%) |
|------|--|---------------------------------------|----------------|
| ---  | B.Tech in Civil Engineering                  | Indian Institute of Technology, Delhi | 7.152          |
| 2015 | AISSE (Central Board of Secondary Education) | Delhi Public School, Indirapuram      | 95.4           |
| 2013 | AISSE (Central Board of Secondary Education) | Delhi Public School, Indirapuram      | 9.4            |

## SCHOLASTIC ACHIEVEMENTS

- International Publication:** R. Yadav et al. 'All Blacks : A Case study of a High Performing Team', IJSR, **I.F 7.3** (2018)
- International Conference:** 'Technologies in Defence and Int. Security', Annual Symposium, **IIT Gandhinagar** (2018)
- Minor degree :** Pursuing degree in **Business Management** from Department of Management Studies, IITD (2015-19)
- KVPY Scholar:** Ranked among **top 200** students nationwide by Dept. of Science & Technology, Govt. of India (2015)
- Research Study:** 'GPS Diagnosis and Analysis of Bus Services in Urban Areas' under Prof. Geetam Tiwari, IITD (2017)
- Department Award:** Awarded '**Significant Contribution to Civil Engineering Forum**' by Head of Department (2017)
- Gold Medal Scholar:** Secured **AIR 1**, Unified Cyber Olympiad (Computers); **AIR 176**, CIPEL English & GK (2007-2014)

## INTERNSHIPS

- JSW Group, Mumbai** (May, 2018 - July, 2018): *Corporate Strategy; Establishing a new mill rolls facility*
  - Achieved **EBITDA Margin 24%** with **payback period 5 yrs** by modelling business plan for **market entry** & break even
  - Strategised for better operational efficiency and CapEx utilisation worth **INR 220 cr** by assaying the major **bottlenecks**
  - Drafted savings of **INR 58 cr** through novel, scalable cost strategy & utility **optimisation**; devised workability framework

*Awarded the **Best Project** among 33 interns for impeccable detail and applicability; project fast tracked to implementation*
- PricewaterhouseCoopers, Gurgaon** (May, 2017 - July, 2017): *Tax Technology; Automated ITR filing module*
  - Facilitated **50% internal cost reduction** by designing UI model generating efficient, real-time and tax ready information
  - Saved 3000 manhours/yr** by devising efficient mechanism **importing data from system** to integrator using templates

*Received Letter of Recommendation from Director for significant contribution in offering automated solutions in taxation*

## EXTRA CURRICULAR ACTIVITIES

- Literary Arts and Quizzing:** Advisory Panel Member, Literary Club, BRCA, IIT Delhi (2018-19)
  - National: Overall Winner**, Inter IIT Cultural Meet 2017, Kanpur: Instrumental in IITD's win among **18 IITs**
  - Winner**, Speaking Arts Trophy and **Runner-up**, Literary Trophy, Inter IIT Cult Meet: led 8 membered contingent (2017)
  - Runner-up**, Ink on Paper: national level writing competition participated by **50+** students organised at Tryst IITD (2018)
  - Runner-up**, Unity Creative Writing Competition: essay writing cum elocution competition organised by MHRD (2017)

**Pan-Institute: 'Significant Contribution to Literary Activities'**, highest honour awarded in Junior Year

  - Winner**, Dance Video Making Competition, 'Quieitus', among 13 competing hostels, Director and Scriptwriter (2018)
  - Winner**, Music Video Making Competition, 'Zindagi', among 13 competing hostels, Director and Scriptwriter (2016)
  - Winner**, Hindi Samiti Trophy and **Runner-Up**, Literary Club Trophy, based on the cumulative points scored (2016)
  - Winner**, General Lit. Quiz, among **100+** participants, Taandav Cult Fest (2018); **Runner-up**, Drama Trophy (2018)
- National Case Studies and Challenges:** Represented IIT Delhi in **6+ National Level Competitions**
  - Winner**, Hyper-lapse: national innovation competition organised by Civil Engineering Forum and Tryst, IITD (2018)
  - Winner**, Constructions: national level 3D modelling and public elocution competition organised at Tryst, IITD (2018)
  - Runner-Up**, In Case You Can, NSIT Delhi (2018); **2nd Runner-Up**, Avante Garde, (70+ teams) IIM Indore (2017)
  - Nomura Research Institute:** Fully funded international study, 'Failure of infrastructure projects by Chinese firms' (2017)

## POSITIONS OF RESPONSIBILITY

- Publicity Coordinator, Rendezvous** (July, 2018 - Present) : *Leading a 3-tier team of 70+ executives*
  - Spearheading **pan-India** publicity with **1200+ representatives** from 200 colleges under Campus Ambassador Program
  - Establishing **viral online outreach** through **5+ social media platforms**, with total following of **2 lakh+** for **150+ events**
  - Mechanised & executed '**RDV-Exordium**' in collaboration with schools, **first of its kind** publicity campaign in Delhi NCR
- Founder, Delhi Poetry Festival, IIT Delhi Chapter** (Dec, 2017 - Feb, 2018) : *IIT Delhi's first ever poetry fest*
  - Led a **4-tier** team of **60+** students to envision and execute **India's largest** standalone poetry fest; **60+** celebrity tie-ups
  - Pioneered **30 offline campaigns** & pre-fest events including *Indian Poetry League* in 10 cities, attracting crowd of **10k**
  - Organised **60+** events during the festival; hosted distinguished artists like Vishal Bhardwaj, Rabbi Shergill, Jasbir Jassi
- Cultural Secretary, Shivalik Hostel** (April, 2017 - March, 2018) : *Elected by 400 residents to lead team of 15*
  - Implemented a **new revenue model** by cataloguing a full-fledged *Alumni's Corner*, promoting association with alumni
  - Organised **30+ intra hostel events** & workshops achieving **2-fold increase** in participation across all the BRCA clubs
  - Collaborated with the literary societies from **50+ Indian colleges** and *Penbound* providing platform for amateur writers
  - Assisted hostel to **record back to back victories** : **Winner**, BHM (2016-17 and 2017-18), **Runner- Up**, BRCA (2015-16)



# SANAT MAHESHWARI



## ACADEMIC DETAILS

| Year | Degree / Board              | Institute                             | GPA / Marks(%) |
|------|-----------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Civil Engineering | Indian Institute of Technology, Delhi | 6.578          |
| 2015 | CBSE                        | St. Xavier Sr. Sec. School            | 94.6%          |
| 2013 | CBSE                        | St. Xavier Sr. Sec. School            | 8.8            |

## SCHOLASTIC ACHIEVEMENTS

- Awarded **Certificate of Merit** from CBSE for being among the **top 0.1 percent** of successful candidates in mathematics.

## INTERNSHIPS

- Intercontinental Consultants and Technocrats Pvt. Ltd, Jaipur Rajasthan** (June 2018 - July 2018): *Construction of balance works of six-lane of Jaipur ring road under NHDP Phase-VII in the state of Rajasthan under EPC mode*
  - Performed Lab experiments for quality testing of construction material such as aggregate, cement and others
  - **Inspected sites** on a regular basis to assist and ensure the smooth progress of construction according to the designed plan
  - Performed computation and analysis of the data under the guidelines prescribed by the **Ministry of Road Transport and Highways**
- Public Works Department Rajasthan** (May, 2017 - July, 2017): *Construction of railway overbridge at Dudu, Rajasthan*
  - Performed tests and experiments to determine the quality of concrete being used for the construction of the retaining walls
  - Analysed the making of **reinforced earth panels** using geo-grids and the layout of the foundation using pier pile structure

## PROJECTS

- Health Sampling and air content monitoring (Prof. Gazala Habib)** (November, 2016 - December, 2016):
  - Identified, Shortlisted, Recruited at-risk populations that are disproportionately impacted by air pollution due to vehicle emissions
  - **Monitored Wide Range Aerosol Spectrometer (WRAS)**, to identify the type and amount of air pollutants present
  - Used **ECG Holters and SpO2** to get body vitals of recruits and volunteers to identify the effects of heavy traffic on individuals
  - The computed data was used at **AllMS** to identify sources of health problems and medical aid was provided to the patients
- Reinforcement Detailing of Two-way RC Slab (Prof. Shashank Bishnoi)** (Course Project) (October, 2017) :
  - Calculated Shear Force & Bending Moments for a **two-way** rectangular Reinforced Concrete slab subjected to UDL
  - Determined the preliminary depth of **two-way slabs** of different support conditions in accordance with **IS 456**
  - Examined the provisions of Reinforcement Detailing along with torsion reinforcing bars for a restrained two-way slab
- Product Realization by Manufacturing (Prof. Sunil Jha)** (course project) (August, 2015 - October, 2015) :
  - Designed and fabricated a metal scrap collector for the swift collection of papers, disposables, and trash after a public gathering
  - The manufactured product was used in Tryst'16 to collect trashed posters and litter spread during the technical festival

## EXTRA CURRICULAR ACTIVITIES

- 1st position- Comedy Movie Making (2015): Selected and Led a cross hostel team to shoot and edit the 1st place securing video**
- 2nd position- Aaj ka Naarad Rendezvous'17: Representative who participated and secured 2nd position in the team event**
- Activity Head Rendezvous'16 (July, 2016 - October, 2016): Annual Cultural fest of IIT Delhi**
  - Managed various accommodation and logistics permissions required for various events before and during Rendezvous

## POSITIONS OF RESPONSIBILITY

- Hostel representative, Literary club:** (April 2016 - August 2016): *Elected unanimously from 400+ residents of Shivalik hostel*
  - Managed and promoted various events organized by the literary club throughout the year at the institute level
  - Organized workshops in the hostel for **400+** residents to promote and cultivate the literary club culture in the hostel
  - Played a key role in the successful organization of events in Rendezvous'16 and the **discussion with Javed Akhtar titled 'Mukhatib'**
- Events Coordinator, Delhi Poetry Festival 2017** (January, 2018 -February, 2018): *Largest poetry festival of country*
  - **Lead a 3-tier team of 10+ Activity heads** to meticulously carry out the distribution of work and ensuring cohesion in the team for completion of tasks
  - Ensured smooth functioning by planning and tended to the **logistical and infrastructural requirements** of the events scheduled
- Public Relations Coordinator, Civil Engineering Society** (April, 2017 - April, 2018)
  - Lead a **25+ member team** for widespread publicity of the society and the events being organized both online and offline
  - Recruited a team of over **20 campus ambassadors** from various colleges countrywide to increase the society's outreach across *multitudes of students, different institutions, and forums*
  - Spearheaded the online **publicity campaign** for the largest technical fest in northern India '**Tryst**'
- Student Mentor, BSW** (July, 2017 - July, 2018): *Selected to guide and help the new students coming to IIT Delhi*
  - Guided first year students to **ensure smooth transition** into IIT Delhi, ensuring their comfort & preventing any stressful interaction
  - Assisted the coordinators in smooth functioning of exhibits, activities, & sessions related to academics, Counselling and Mentorship during Orientation,2017 as well as collected information about many aspects of fresher's life via surveys



# SATEESH KUMAR MEENA



## ACADEMIC DETAILS

| Year | Degree / Board                                | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech in Civil Engineering                   | Indian Institute of Technology, Delhi | 8.289          |
| 2015 | Board of Secondary Education Rajasthan, Ajmer | Creative Public Sr Sec School         | 95.40 %        |
| 2013 | Board of Secondary Education Rajasthan, Ajmer | Adarsh Vidhya Mandir Sec School       | 92.83 %        |

## COURSES DONE

Elements Of Surveying, Rc Design, Construction Management, Engineering Hydrology, Geotechnical Engineering, Structural Analysis Ii, Construction Practices, Steel Design, Design Of Hydraulic Structures, Prestressed Con. & Ind. Struc.

## INTERNSHIPS

- **Infrastructure Leasing & Financial Services Ltd, New Delhi** (May, 2017 - July, 2017): ***Sustainable handling of C&D Waste***
  - Examined off-site operations such as Inspection, Collection & Transportation of Construction & Demolition waste
  - Analyzed the operation of **Rubble Master 60** for refining C&D waste and ensured preventive maintenance for the system
  - Monitored quality measures & sales-dispatch of the finally produced utilities such as RMC, Tiles, Kerbstones, Blocks & the rest
  - Achieved more than **40% increase** in 28 day compressive strength of concrete by including **10% micro & 2% nano** silica in the mix
- **Indian Road Safety Campaign (Solve), New Delhi** (Dec, 2017 - Jan, 2018): ***Promoting use of helmet among pillion riders***
  - Worked in 3-person team with an aim to augment the number of helmet wearing kids as **pillion riders** to reduce casualties
  - Visited outskirts of Delhi and surveyed helmet sellers & consumers to understand the common issues with motorcycle helmets
  - Promoted helmet wearing behavior among subjects as trickle-down effort to reduce risk of injury & death in motorcycle riders

## IIT DELHI THESIS

**Title:** Minimization of Undesirable & Harmful Effects due to Vibrations in a Complex Structural System

**Supervisor:** Prof. Alok Madan & Prof. Suresh Bhalla

### Description:

- Conducted preliminary review on **Vibration Control Theory** to mitigate seismic impacts on complex infrastructure networks
- Developing a vibration control simulation model using **MATLAB** to robustly tune a controller for reducing vibrations
- Experimenting various design techniques for increasing safety of civil engineering infrastructures during earthquakes

## PROJECTS

- **Health and Environmental Effects of Air Quality (Prof. Gazala Habib)** (Nov, 2016 - Dec, 2016) :
  - Identified, Shortlisted, Recruited & Volunteered at-risk populations that are disproportionately impacted by air pollution
  - Monitored air pollutants from near sources such as highways & others using **Wide Range Aerosol Spectrometer & PM Samplers**
  - Observed the link between health effects and exposure to individual pollutants & multipollutant using **ECG Holter** system
  - Computed data was used at **AIIMS** to identify sources of health problems and medical aid was provided to the subjects
- **Non-linear dynamics & Chaos in Hydrology (Prof. Rakesh Khosa)** (May, 2018 - June, 2018) :
  - Developed a basic understanding of **Chaotic theory** to examine the exquisite behavior in simple non-linear hydrological processes
  - Used a non-linear logistic map to see stability, periodic oscillations & chaotic behavior at different growth parameter values
  - Identified consequences of **Butterfly Effect** in observing deviation in future behavior of a non-linear dynamic system
- **Structural Design & Detailing using STAAD.Pro (Prof. Suresh Bhalla)** (July, 2018 - Present) :
  - Determined various load combinations & preliminary member specifications for a structure using **IS Code** of Practice for structures
  - Independently performing **3D** analysis of Industrial Shed & 3-storeyed RC Building using state-of-the-art software **STAAD.Pro**
  - Producing elaborate design & detailing of Pile Caps, Purlins, Bracings, Footings & Slab panels manually besides using **STAAD.Pro**
- **Reinforcement Detailing of Two-way RC Slab (Prof. Shashank Bishnoi)**(Course Project) (Aug,2017 - Sep, 2017) :
  - Calculated Shear Force & Bending Moments for a **Two-way** rectangular Reinforced Concrete slab subjected to **UDL**
  - Determined the preliminary depth of **Two-way** slabs of different support conditions in accordance with **IS 456**
  - Explained the provisions of **Reinforcement Detailing** along with torsion reinforcing bars for a restrained two-way slab
- **Bridge modeling using 'LUSAS Bridge' (Prof. Supratik Gupta)**(Course Project) (Aug, 2018 - Present) :
  - Designing a **3-lane** Prestressed Concrete Road Bridge of span length 30 meters each using modeling software **LUSAS Bridge**
  - Implementing Vehicle Load Optimization facilities & Multiple Tendon Prestress Wizards in **LUSAS Bridge** to achieve safe design
  - Performing analysis including smart combinations of various loadings by taking into account the adverse & relieving effects
- **Multipurpose Lawn-mover with Brush cutter** (Course Project) (Jan, 2016 - May, 2016) :
  - Coordinated in a 4-person team to establish project scope, timeline & budget consideration to develop a grass cutter model
  - Applied basic manufacturing processes such as Carpentry, Welding, & Sheet Metal to make product sheer & economic

## TECHNICAL SKILLS

**Softwares:** STAAD.Pro, LUSAS Bridge, Autodesk Inventor, AutoCAD; **Programming Languages:** C, MATLAB, Octave



# SAURAV RAJ



## ACADEMIC DETAILS

| Year | Degree / Board              | Institute                                     | GPA / Marks(%) |
|------|-----------------------------|---|----------------|
| ---  | B.Tech in Civil Engineering | Indian Institute of Technology, Delhi         | 7.626          |
| 2015 | CBSE                        | Gyan Bharti Model Residential complex , Hisua | 89.8           |
| 2013 | CBSE                        | Gyan Bharti Model Residential complex , Hisua | 10             |

## COURSES DONE

Introduction To Economics, Organizational Behaviour

## QUALIFYING EXAMS

- Joint Entrance Examination (JEE) Advanced Rank: 2116 (GE)

## INTERNSHIPS

- IRSC , New Delhi (May 2017- june 2017) Indian Road Safety Campaign
  - Analysed the **main reasons responsible for causing accidents** happening in various parts of Delhi
  - Worked in collaboration with **Delhi Police** to created awareness in various schools
  - Attended lectures and Learned various techniques to help victims during road accident

## SCHOLASTIC ACHIEVEMENTS

- Awarded For best **Science Project** in class xii
- Awarded for **outstanding performance** in class xii CBSE Exam by **Prabhat Khabar**
- Awarded for **outstanding performance** in class xii
  - First student from the district to qualify for IITJEE

## PROJECTS

- Molecular Dynamics** Approach to simulating clay and sand particles behaviour using **LAMMPS Software** (G.V RAMANA) (Jan, 2017 - April 2017)
  - Learned how to run LAMMPS
  - Analysed the behaviour of clay mineral (kaolinite)
- Insitu shear strength** characterization of municipal solid waste (G.V. RAMANA) (July,2017- jan 2018)
  - Analysed Shear Strength of already failed slope
  - Calculated the safe height of landfill
- MCP 101** Course Project (Sunil Jha) (aug ,2017- oct 2017)
  - Made Leaves Collection Instrument

## TECHNICAL SKILLS

- C++ , FORTRAN ,LAMMPS , AUTODESK INVENTOR,STAAD PRO

## EXTRA CURRICULAR ACTIVITIES

- Awarded** for Significant Contribution in **Cultural Activities**
  - Took the **Culture** of UDAIGIRI Hostel to a new level
- Volunteer**, Munrika Teaching Project
  - Volunteered to teach school subjects to children
  - Managed children to ensure active participation
- Volunteer**, Food4Thought
  - Volunteered to develop reading habits in children
  - Managed books available for reading
- Awarded for **Outstanding contribution** in sports
- Awarded for **significant contribution** in various cultural activities in class xii
- Runner Up** in Inter-Hostel competition (2015-16) in **Dramatics**

## POSITIONS OF RESPONSIBILITY

- Representative , Hindi Samiti**( july2016- april17)
  - Organised and managed cultural festivals ( **UDGHOSH**)
  - Took active participation in management of **RENDEZVOUS** , 2016



# SHATRUJEET SINGH RATHORE



## ACADEMIC DETAILS

| Year | Degree / Board              | Institute                             | GPA / Marks(%) |
|------|-----------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Civil Engineering | Indian Institute of Technology, Delhi | 5.671          |
| 2014 | CBSE                        | Bikaner Boys School, Bikaner          | 88.6%          |
| 2012 | CBSE                        | Bikaner Boys School, Bikaner          | 9.2/10         |

## QUALIFYING EXAMS

- Joint Entrance Examination (JEE) Advanced Rank: 2037 (GE)

## SCHOLASTIC ACHIEVEMENTS

- National Entrance Screening Test:** Secured National Rank **411** in annually conducted examination for research studies (2015)
- National Level Science Talent Search Examination (UCO):** Secured National Rank **405** & State Rank **63** in the examination (2014)
- International Olympiad of Science (iOS):** Secured International Rank **150**; Awarded **Special Achievement Certificate** (2013)
- National Science Olympiad (SOF):** Secured International Rank **359** & State Rank **55** (Raj.) in the examination (2013)
- International Assessments for Indian Schools (UNSW, Australia):** Scored among Top **19** percentile in the examination (2007)

## INTERNSHIPS

- Deloitte Touche Tohmatsu India LLP, New Delhi** (June, 2018 - July, 2018) : *Consulting, Strategy & Operations*
  - Worked on **1 live** and **3 eminence** projects in a team comprising of Senior Manager, Manager, Consultants & POC from client side
  - A Project on Asset Management with a large UAE developer:** Assisted in general day to day operations of the project
  - Helped improve project efficiency by **8 hours** while assisting in creation of Customer Personas & conducting secondary research
  - Supported in constructing insights into the value chain of the project & drew **key inferences** from meetings with the client
- MSME (Micro, Small & Medium Enterprises) POV Thought Project:** Assisted in framing Deloitte's perspective on the financing of India's MSMEs to establish **market eminence** and potentially acquire **new businesses** for the organisation
- Public Healthcare project:** An eminence project concerning healthcare & pharmaceutical research sector of the world
  - Framed and devised job descriptions after secondary research for Subject Matter Experts (SME) in healthcare sector
- Business Development Work :** Formulated & enhanced knowledge database for Banks by constructing a quarterly database
- ONGC Ltd., New Delhi** (May, 2017 - July, 2017) : *Cost Estimation and Construction Project Management*
  - Studied methodology of Cost estimation of projects comprising of Ballpark & Detailed Item Rate based Estimation process
  - Prepared estimate of Construction works of Pump House & Bachelor Accommodation at the ONGC Installation in Assam
  - **Improved** ballpark estimation by sorting out obsolete items/materials and substituting them with new items/materials
  - Thoroughly **analyzed** quantities & rates from latest CPWD publications viz. Schedule of Rates & Analysis of Rates

## EXTRA CURRICULAR ACTIVITIES

- Event Management:** Managed proceedings during Tryst'17 as an **activity head** from Oct 2016 to Feb 2017
  - **Designed "Underwater Project",** a novel competitive event involving structural, geotechnical & cost management aspects
  - Successfully coordinated with **100-150** students efficiently conducting **6** main-scale event proceedings in Tryst'17
  - Conceptualized and Conducted **2** Civil Engineering Departmental Events, "*Underwater Project*" & "*Hyperlapse*"

Awarded a **Certificate of Appreciation** for Significant Contribution in *Tryst'17*
- Music:** Participated in various inter-hostel and intra-hostel events and mentored other members of the hostel club
  - **Mixtape** : Mentored the drummer and held practice sessions which lead to the **Runner-up** Position in the event (2017)
  - **Jukebox** : Orchestrated a performance as a **Drummer** on the song "Every Breaking Wave" in the Intra-Hostel competition (2016)
  - **House Day:** Orchestrated a performance as a Drummer on the song "Thinking Out Loud" with the Hostel music club (2016)
- Fine arts and Crafts, Udgosh:** Organized and crafted the decorations for the Hostel Festival, leading a team of **5-6** members (2016) *Recognized by Swami Arts Sansthan for completing Training in Painting and Sketching*
- Social Endeavours:** Worked in NSS and engaged in various social activities while acting as an activity head in Tryst'17
  - Efficiently coordinated with **60** students to conduct the Workshop "Antarchakshu" providing insights into lives of blind
  - Successfully managed "Social Innovation Challenge" & Assisted in "A talk with Tiffany Brar" during The Social Campaign for **Tryst'17**

## POSITIONS OF RESPONSIBILITY

- Member, House Working Committee, Udaigiri**(April 2017-April 2018):
  - Worked with the Music Representative on the annual budget to **improve & restructure** the Music Club of the Hostel
  - Contributed with the Mess Secretary in **restructuring** the ambience & hygiene, improving the food quality & resources
- Member, Udaigiri Mess Committee** (April, 2017 - April, 2018) :
  - Worked with **6** members to innovate the mess and implemented Music system to create better ambience during meals



# SHUBHAM KAUSHAL AHIRWAR



## ACADEMIC DETAILS

| Year | Degree / Board              | Institute                                    | GPA / Marks(%) |
|------|-----------------------------|--|----------------|
| ---  | B.Tech in Civil Engineering | Indian Institute of Technology, Delhi        | 6.567          |
| 2014 | CBSE                        | JAWAHAR NAVODAYA VIDAYALAYA<br>HATTA (DAMOH) | 89.80          |
| 2012 | CBSE                        | JAWAHAR NAVODAYA VIDAYALAYA<br>HATTA (DAMOH) | 9.6            |

## QUALIFYING EXAMS

- Joint Entrance Examination (JEE) Advanced Rank: 172 (SC)

## COURSES DONE

Intro. To Computer Science, Engg. Visualization & Comm., Product Realization By Manf., Minor Design Project - Vi, Rc Design, Civil Engineering Seminar, Rural India And Planning For Development

## SCHOLASTIC ACHIEVEMENTS

- National in U-19 Volleyball Championship: Awarded for the selection for national team of **Bhopal Region**.
- 23rd REGIONAL VOLLEYBALL MEET: Selected for **Regional** team of **Katni Cluster**.

## IIT DELHI THESIS

**Title:** B.Tech Project(BTP)

**Supervisor:** G V Ramana

**Description:**Coarse-Grained Molecular Dynamics Approach to Simulating Clay Behavior using LAMMPS.

- here we particularly simulate kalonite clay.
- We also observe several parameters like consolidation etc.

## INTERNSHIPS

- Indian Road Safety Campaign(IRSC), IIT DELHI (May, 2017 - June, 2017) : Worked to make roads safer
  - worked in association with **Delhi Police** and **TRIIP, IIT DELHI** to spread awareness in schools by conducting interesting activities.
  - Recorded the data representing percentage of people **wearing helmets**.
  - Attended sessions to learn various techniques to **help victims of road accident**.
  - Managed the **Marathon** held here at IIT DELHI.

## PROJECTS

- Simulating kalonite clay in LAMMPS (G V Ramana) (January,2018-April,2018)
  - created input file to simulate kalonite clay in **LAMMPS** by taking various assumptions according to a paper published by Kurt J. Sjöblom.
  - we observed several results like consolidation etc. and matched with the results given in paper.
- Course Project (MCP101) (July, 2015 - November, 2015) :
  - Manufactured **fold-able chair** having 2 functions.
  - 1. chair.
  - 2. stool.

## TECHNICAL SKILLS

- c language, LAMMPS, AUTODESK INVENTOR,Microsoft Office.
- Completed **Intel Learn Program**.

## EXTRA CURRICULAR ACTIVITIES

### Sports

- played **national in U-19 volleyball** competition of navodaya vidyalaya samiti(**NVS**).
- **Captain** of volleyball team of udaigiri hostel.

### NSS

- Volunteered for teaching children's of munrika village and Apna parivaar children's home.

- donated blood and spread awarness about the same.

### Volunteered in SCIENCE EXHIBITION ON WHEELS.

### Participated in SCIENCE CHAMP.



# SHUBHAM KUMAR SINHA



## ACADEMIC DETAILS

| Year | Degree / Board                      | Institute   | GPA / Marks(%) |
|------|-------------------------------------|---|----------------|
| ---  | B.Tech in Civil Engineering<br>CBSE | Indian Institute of Technology, Delhi<br>ST.THOMAS HIGH | 6.237<br>85.00 |
| 2014 |                                     | SCHOOL, TOPCHANCHI, DHANBAD                             |                |
| 2012 | CBSE                                | JAWAHARLAL NEHRU MEMORIAL<br>SCHOOL, DIGWADIH, DHANBAD  | 9.8/10         |

## COURSES DONE

Profe. Ethics & Social Resp., Engg. Visualization & Comm., Product Realization By Manf., Construction Management, An Introduction To Literature, Rural India And Planning For Development, Food Quality And Safety

## QUALIFYING EXAMS

- Joint Entrance Examination (JEE) Advanced Rank: 704 (OB)

## INTERNSHIPS

- Central Public Works Department (May, 2017- July, 2017)
  - Worked at the construction site of Additional Complex of Supreme Court
  - Performed design analysis of various structural components
  - Tested the structural components.

## PROJECTS

- Modern Construction Methods and Costs Involved (Prof.B Bhattacharjee) (November, 2016- January, 2017) :
  - Analysed different types and costs of modern methods of construction alternatives currently being used in India.
  - The work acts as a reference for ongoing work on housing affordability
- MCP 101 COURSE PROJECT (Prof.Ravi Kumar, Digavalli ) (Feb,2016 - April,2016):
  - Made a WOODEN AIR ENGINE air engine using various machining process.
  - Used vacuum suction technique (course project)
  - Selected for Display at Open House.
- B.Tech ongoing Project (Shri Harsha Kota) (July,2018- ) :
  - To perform Cost benefit analysis of various environmental scenarios
  - Involves rigorous case study of scenarios to determine its strengths and weaknesses.
- Course Project (Prof. Suresh Bhalla) (August, 2018- ) :
  - Executing analysis, design and detailing of concrete and steel structures in STAAD Pro.

## TECHNICAL SKILLS

- AutoCAD, STAAD Pro, C/C++, Fortran, ARCGIS

## EXTRA CURRICULAR ACTIVITIES

- Open House, IIT Delhi (2016)
  - Participated and displayed my project wooden air engine
- Innovision'16, Netaji Subhas Institute of Technology
  - Served as the Campus Ambassador.
  - Created awareness about Annual Techno - Managerial Festival.
  - Promoted the festival as well as all its events in IIT Delhi.
- Aam Aadmi Party Research and Policy Cell (February,2018 - April,2018)
  - Worked as a Data Analyst
  - Analysed various policies of Central as well as State Government.
  - prepared research notes and inference drew from these reports.
  - Gathered information, data management.
- NIN100 Course Activity(P.V.M RAO)(Nov. '15)
  - Ornithopter - Aircraft Designing
  - Designed the prototype of an aircraft
  - based on flapping mechanism inspired from the motion of birds.
- Associated with National Service Scheme (NSS), IIT Delhi
  - Taught school students Science and Mathematics



# SOMESH ARYA



## ACADEMIC DETAILS

| Year | Degree / Board              | Institute                             | GPA / Marks(%) |
|------|-----------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Civil Engineering | Indian Institute of Technology, Delhi | 7.388          |
| 2015 | CBSE                        | Cambridge Court High School,Jaipur    | 91.8%          |
| 2013 | CBSE                        | Kendriya Vidyalaya No. 5,Jaipur       | 10/10          |

## COURSES DONE

Intro. To Computer Science, Macro Economics, Microeconomics, Data Structures And Algorithms, Selected Topics In Economics

## QUALIFYING EXAMS

- Joint Entrance Examination (JEE) Advanced Rank: 1776 (GE)

## SCHOLASTIC ACHIEVEMENTS

- National Standard Examination In Chemistry(IAPT): Secured rank in **Statewise Top 1%** of the candidate enrolled in Rajasthan(2015)
- International Mathematics Olympiad(SOF): Secured **International Rank 1614 & State Rank(Rajasthan) 123** in the examination(2014)

## INTERNSHIPS

- DoubtNut,Gurgaon(May,2018-July,2018): An Online Education firm
  - Worked on **creating Mathematics Video Content** for DoubtNut app
  - Worked on explaining the mathematics concepts and solving the mathematics problem by making **video solutions**
  - Successfully completed target of **1100 mathematics content video**

## PROJECTS

- Course Project: Search Engine (Feb,2018-Feb,2018):Guide- Prof. Saroj Kaushik
  - Implemented Pagerank,a part of Search Engine using **Circular Multi-Linked List**
  - Handled a series of operation having two web pages as input
- Course Project: Market Data Publisher(MDP) (Mar,2018-Mar,2018):Guide- Prof. Saroj Kaushik
  - Implemented using **AVL Trees** Data Structure
  - Returned modified stock price of a company data after a series of operations performed on initial stock
- Course Project:Road Network development for travel app (Apr,2018-Apr,2018):Guide- Prof. Saroj Kaushik
  - Developed road network behind a realistic travel app in *minimum time* by implementing **MST algorithm**
  - Performed operations on two junction like determination of shortest path in terms of time using **dijkstra's alogirthm**
- Insitu shear strength characterisation of municipal solid waste:Guide-Prof.G.V.Ramana
  - Analysed shear strength of already failed slope
  - Calculated the safe height of landfill
- B.Tech Project: Numerical Analysis Of Rapidly Varied Flow (July,2018-Present):Guide-Prof.N.K.Garg
  - Developing software for analysing Rapidly Varied Flow in canal
  - Computing flow parameters in canal flow by using this software after developing it
- Analysis And Preparation Of Road Network Of Delhi(Aug,2017-Jan,2018):Guide-Prof.Geetam Tiwari
  - Analysed the passenger and freight vehicular movement in Delhi
  - Updated the road network of delhi using **ArcGIS** software and google map

## TECHNICAL SKILLS

- Programming Languages :C/C++, JAVA, MySQL, FORTRAN
- Softwares: STAAD Pro, LUSAS, Autodesk Inventor, Eclipse

## EXTRA CURRICULAR ACTIVITIES

- DRAMATICS: Runner-up, Inter Hostel Street Play Competition,among 13 participating hostel (2015-16)

## POSITIONS OF RESPONSIBILITY

- Publicity Executive, eDC Club IITD:
  - Worked on online and offline **publicity** of events organised by eDC Club
  - Helped in **organisation** of many panel talks and other events of eDC Club especially **E-SUMMIT** event



# SUDHIR KUMAR



## ACADEMIC DETAILS

| Year | Degree / Board              | Institute  | GPA / Marks(%) |
|------|-----------------------------|--|----------------|
| ---  | B.Tech in Civil Engineering | Indian Institute of Technology, Delhi                            | 5.853          |
| 2014 | CBSE                        | Swami Vivekanand public school, Sec-17 Huda, Yamuna nagar, Noida | 90             |
| 2012 | CBSE                        | Swami Vivekanand public school, Sec-17 Huda, Yamuna nagar, Noida | 9.2            |

## COURSES DONE

Profe. Ethics & Social Resp., National Sports Organisation, Minor Design Project - Vi, Environment; Development And Society, Persr Internships

## QUALIFYING EXAMS

- Joint Entrance Examination (JEE) Advanced Rank: 174 (SC)

## INTERNSHIPS

- IRSC , New Delhi (May 2017- June 2017) Indian Road Safety Campaign

-Analysed the main reasons responsible for causing accidents happening in various parts of Delhi  
-Attended lectures and Learned various techniques to help victims during road accident  
-Worked in collaboration with Delhi Police to created awareness in various schools

## PROJECTS

- Bus Bunching, Bus Route Analysis and ARCGIS Software. (GEETAM TIWARI) (MAY2017-JULY2017)
  - Updated Road Network of Delhi using ARCGIS MAP
  - estimated Congestion of roads to provide time efficiency.
- Marketing Team Member , GLAMANAND Pvt. Ltd.(ANOOP KRISHNAN) (May 2018-july 2018)
  - Played an active role in increasing the sponsors
  - Managed events held in different cities
  - Played a major role in increasing publicity of the events via new channels and social media.
- State Highway and MDR Accident Analysis(BTECH Ongoing Project)(GEETAM TIWARI)
  - Generation of vehicle crash matrix and basic analysis
  - Digitisation of land use along State Highway and MDR
  - Speed extraction using Google App
  - Extraction of accidents data from FIR data
- Course Project (Sunil Jha)(July2015-nov2015)
  - Manufactured "Kid's two wheeler scooter" as a term project MCP101 with new techniques

## TECHNICAL SKILLS

- AUTO DESK INVENTOR, AUTOCADARCGIS, STAAD PRO, FORTRAN
- ARCGIS, STAAD PRO, FORTRAN

## EXTRA CURRICULAR ACTIVITIES

- NIN 100 Course Activity(P.V.M.RAO)(Nov2015)
  - Made ORNITHOPTER based on Aircraft Designing
  - Designed the prototype of an aircraft
  - Based on flapping mechanism inspired from the motion of the birds



# SUDHIR KUMAR



## ACADEMIC DETAILS

| Year | Degree / Board              | Institute                             | GPA / Marks(%) |
|------|-----------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Civil Engineering | Indian Institute of Technology, Delhi | 6.076          |
| 2014 | BSEB                        | Mahant Ramroop Goswami College        | 68             |
| 2012 | CBSE                        | Saraswati Vidya Mandir                | 10.0           |

## COURSES DONE

Engg. Visualization & Comm., Product Realization By Manf., Minor Design Project - Vi, NSS, PESR Internships, Rural India And Planning For Development, Food Quality And Safety

## INTERNSHIPS

- **Supreme VPIL (JV), Patna** (May, 2018 - July, 2018) : - Worked at the construction site in Usfa (Patna)
  - Coordinated with architects and contractors, to accommodate for onsite constraints in the final design and correctly implement the quality control techniques.
  - tested of the structural component which is made for construction. Conducting survey of the new P.S.S.
  - Yielded a reduction in overall cost by optimizing the quantities of material required for construction.
- **OH! MY LAUNDRY**, (2 Dec , 2017 - 30 Dec, 2017) : *Business Development*
  - Worked on tie-ups with companies who require regular services. Implementation of idea on the overall growth of the brand.
  - Worked on ideas of using new chemicals for clothes and analyse proper ways to implement these ideas.

## PROJECTS

- **Vehicular Fuel Efficiency Survey in Delhi-NCR (Gazala Habib )** (November, 2016 - December, 2016) :
  - Survey and data calculation of passenger vehicles at 10 different places. Comparison of fuel efficiency between different types of vehicles.
  - Conducted the survey to learn more about what consumers attitudes are towards fuel efficiency and how much vehicles are below 15 years.
- **Analysis of passenger & freight vehicular movement(Geetam Tiwari)** (January, 2018 - April, 2018) :
  - Classified Volume Count at 70 locations spread across Delhi.
  - Analysis of Speed vs Volume curve to check the freight vehicle movement.
- **Comparison of city with highway freight characteristic (Geetam Tiwari)** (Agust, 2018 - November, 2018) :
  - Conducting of survey for capturing freight fleet characteristics in Delhi city using app called "Car Info". To collect the data about maker model, fuel type, registration date, vehicle age and vehicle class of different vehicles.
  - analysis of freight vehicle characteristics in Delhi. Cross checking the data. Comparing NH with city freight characteristics.
- **Course Project (Sunil Jha) :**
  - Manufactured "Handle Segway" in a group as term project MCP101.
- **Course Project (Suresh Bhalla):**
  - Independently executing structural analysis, design and detailing of RC and steel structures (in STAAD PRO).

## TECHNICAL SKILLS

- C++, FORTRAN
- ArcGIS, AUTODESK, STAAD PRO, LUSAS

## EXTRA CURRICULAR ACTIVITIES

- **Volunteer:** , Indian Road Safety Campaign
  - Worked in collaboration with Delhi Police to created awareness in various schools
  - Analysed the reason of accidents happening in various parts of Delhi
  - Attended lectures and Learned various techniques to help victims during road accident
  - Worked in collaboration with Delhi Police to created awareness in various schools
- **Volunteers:** encourage people to make toilet, and helping in opening the bank account and form filling to the beneficiary of Indira Awas and Old Age Pension in Bihar, West Champaran District from 20th June 2016 to 15th July 2016.
- **Teaching to Government school-** Volunteered for a month long Teaching Project free of cost in the GOV. School from May 2016 to June 2016 and to motivate the students to get a bright future. Arrange the different types of activity programme for children and motivate them in participating extracurricular activities.



# SURAJ SINGHAL



## ACADEMIC DETAILS

| Year | Degree / Board                       | Institute                             | GPA / Marks(%) |
|------|--------------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Civil Engineering          | Indian Institute of Technology, Delhi | 6.296          |
| 2014 | Central Board of Secondary Education | Delhi Public School, Hapur            | 89.8%          |
| 2012 | Central Board of Secondary Education | Delhi Public School, Hapur            | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- International Publications:** Co-authored **2 research papers**; 1 accepted and 1 published in peer-reviewed journals (2018)
  - Singhal et al, "Disruptive Analysis of Opportunities for Blockchain and Distributed Ledgers in Telecom Industry", IJSRET Vol 4
- 6 Sigma Certification:** Awarded by Aveta Business Institute & SSC for displaying curriculum proficiency; scored 94% (2018)
- MHRD Scholarship:** Awarded for **academic excellence** in the undergraduate program, IITD by Government of India (2016)
- Certification of Merit:** Awarded by Central Board of Secondary Education for outstanding academic performance (2012)
- Foreign Language Program:** Learned **French** as the third language under FLP to enhance communication skills (2017)
- Diploma in Operations Management:** Received the certification from Alison for completion of diploma course (2018)

## INTERNSHIPS

- Almora Blockspace Pvt. Ltd, Noida** (May, 2018 - July, 2018): *Business Analyst*
  - Worked extensively on **India's first blockchain based co-working** through status meetings, identifying risks and tracking issues
  - Partnered with blockchain developers to automate manual processes, optimized revenue allocation while decreasing errors
  - **Analyzed** requirements and designed Blockchain technology around the business model and launched a Blockchain network
  - **Evaluated risks** related to requirements implementation, testing processes, project communications, and training

## PROJECTS

- Bachpan (Android Application):** *Contract with Delhi Commission for Protection of Child Rights (DCPCR) for App on CSA*
  - Prepared project documentation, finances, resource allocations, and status of 'Bachpan' for the Samadhyan Abhiyan
  - Acted as a point of contact between NGO and developer from solution planning to the fulfillment of requirements
  - Provided developer with analytics and decision-support tools used as the basis for reorganization and consolidation strategies
- Mumbai Metro (MMRDA)** (May, 2017 - July, 2017): *Elevated Metro Rail Corridor from DN Nagar to Mandala, Mumbai*
  - Replicated the design of Viaducts, Station & depot of Dahisar (E) unit of metro line 7 using the software STAAD.Pro
  - Hands-on experience in the fields of Project planning and Monitoring of civil works in the ongoing Mumbai metro project
  - Studied the functioning of contracts, health safety & environment, quality control, & planning departments of the project

## POSITIONS OF RESPONSIBILITY

- Core Team Member, Speranza'16** (April, 2016 - September, 2016): *The Youth Welfare festival of IIT Delhi organised by BSW*
  - Coordinated with Events and Publicity division of the festival to **increase participation** of students in various events
  - Single-handedly **organized** AADHAR card and PAN card camps to provide a convenient place to students new to Delhi
  - Negotiated deal with band 'Agastya' to perform in the fest and managed logistics and ensured smooth execution of the event
- Representative, BSW** (March, 2016 - March, 2017): *Elected unanimously to organize and manage welfare activities in the institute*
  - **Organised** and managed various camps and events, such as Delhi Darshan involving 800+ students throughout the year
  - Led a full-fledged **Substance Abuse Campaign**, to check the increased popularity of substance abuse on the campus
  - Raised money from 60+ graduating students for 'BSW Grants Fund' to provide loans and grants to underprivileged students
- Member, House Working Committee** (March, 2018 - Present) :
  - Responsible for **making decisions** and **handling** hostel related issues in an 11 Member HWC chaired by Hostel Warden
  - Responsible for the **formation** of the annual budget of the hostel, comprising of BRCA clubs & Hostel Maintenance works
  - **Pioneered** The Right To Information in Hostel by promoting transparency in budget allocation and expenditure on goods

## EXTRA CURRICULAR ACTIVITIES

- Social Endeavor** *Regularly volunteered for various projects under National Service Scheme for the welfare of society*
    - **Lakshyam Teaching Project** (January, 2016 - May, 2016): Imparted basic knowledge to underprivileged students
    - **National Association for the Blind** (July, 2017 - July, 2018): Volunteered as a scribe for visually challenged students
  - Cultural** *Spearheaded VindhyaChal Hostel to 1st trophy across any board after 9 years - Runner-up, BSP Trophy (2017)*
    - **Runner-up, BHM Stall Decoration**, Conceptualized and executed theme for decoration to compete against 12 other hostels (2018)
    - "House of the Phoenix", **Content writing and design** of yearbook of VindhyaChal Hostel for two consecutive years (2017, 2018)
  - Hostel Management** *Worked closely with all departments to assure efficient and smooth working of all hostel activities*
    - Maintenance and Mess Committee Member, regulated mess budget and **increased transparency** in the expenditure (2017, 2018)
    - **Organising team member** of the hostel sports & cultural fest of VindhyaChal including various clubs and sports (2017)
- Awarded **consecutively 2 years** for 'Significant' and 'Outstanding Contribution to Hostel' (2017, 2018) & **Notable contribution** in TnP Cell (2017)



# UTKARSH SHAHI



## ACADEMIC DETAILS

| Year | Degree / Board              | Institute                             | GPA / Marks(%) |
|------|-----------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Civil Engineering | Indian Institute of Technology, Delhi | 7.265          |
| 2015 | CBSE                        | Amity International School, MV        | 92.6           |
| 2013 | CBSE                        | Amity International School, Noida     | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- Publication :** Shahi U. et al, '5-Point DuPont Analysis of Household and Personal Product Companies', IJAMR (2018)
  - Collected financial statements of 7 BSE 200 listed companies & examined correlation between CCC and ROE
- Global Talent Search Examination :** Secured **International rank 3** in examination held across 28 countries (2014)
- Problem Solving Assessment:** Secured **National top 1%**, quantitative reasoning in exam conducted by CBSE (2014)

## PROJECTS

- Exploring the way forward for Colonization of Mars** (Prof. Tanusree Chakroborty) (August, 2018 - May, 2019) :
  - Researching various geo-physical aspects of the planet and proposing optimum solution for sustenance of life

## INTERNSHIPS

- Schlumberger Asia Services Ltd, Ahmedabad** (June, 2018 - July, 2018) : *Field Engineer Intern in fracking segment*
  - Assisted seasoned crew in execution of **3 onshore hydro-fracturing jobs** (dataFRAC & mainFRAC) at 3 different assets
  - Achieved **40%** increase in rig-up planning efficiency by designing a semi-automatic platform to yield all job requirements
  - Project: Analysed job data of **50+** Gujarat basin oil-wells; correlated with production data & consulted **7 industry experts**
  - Formulated report on **Novel techniques for fracking**, profiting est. **USD 24 M/yr** by enhanced production & success rate
  - Report accepted as a part of Knowledge Hub & made mandatory to be read by all Schlumberger field engineers in Gujarat*
- Samadhan Technologies, Delhi** (May, 2017 - July, 2017) : *Bluetooth based beacon services - Sales & Marketing intern*
  - Identified beacon applications & studied the competitive market; created concept videos, presentations for B2B tie-ups
  - Examined consumer behavior based on **click data patterns** and surveys to propose store specific marketing strategies
  - Awarded Letter of Recommendation by the Founder-CEO for in-depth analysis & commendable work accomplishment*

## POSITIONS OF RESPONSIBILITY

- General Secretary, Board for Hostel Management** (April 2018 - Present): *Striving to make IITD a paragon for the nation*
  - Elected to lead apex council of 230 members to address administrative and infrastructural concerns of 9000+ residents
  - Implementing **pay-per-meal** system in hostel messes, aimed to reduce food wastage and mess fees by a potential **15%**
  - Initiated intra-college **internships** to promote inclusiveness for achieving goals in improving aesthetics and outlet sales
  - Pioneering digitalization & sustainability initiatives: Data hub, Maintenance portal, Green Trophy, project *infinity & beyond*
  - Revamping the structure of BHM to maximize functioning **efficiency**; testing 2 different structures through trial & error
- House Secretary, VindhyaChal House** (April 2018 - Present): *Envision a place to inspire courage to follow one's dreams*
  - Elected by 300+ residents to lead a 3-tier team of 50+ members across 5 boards & 2 councils to handle all hostel affairs
  - Completed **5 major projects** including wifi router installation & construction of night mess - all within 1st month of tenure
  - Undertaking avant-garde initiatives: Masterchef VindhyaChal, **Pillars of creation** & Music hour to bolster hostel culture
  - Pioneering an **institution of journalism** and creative thinking; launched 1st edition of '*House of the Phoenix*' magazine

## EXTRA CURRICULAR ACTIVITIES

- Aquatics** : *Captained Hostel Aquatics team to register first ever participation in inter-hostel water-polo, BSA* (2016)
  - **Inter-IIT:** Represented college at 52nd Inter-IIT sports meet securing **2nd runners-up** in men's swimming (2016)
  - **Runner-up, 50m freestyle; Runner-up, 100m freestyle; 2nd runner-up, 200m freestyle:** Inter-hostel (2016)
- Film-making and Music** : *Directed, edited and scripted 10+ videos; Lead guitarist of hostel band for 3 years* (2015)
  - **Runners-up, Music Video Making**, Inter-hostel (2016); **2nd Runners-up, Jukebox**, Inter-hostel rock band (2016)
  - **Runners-up, Jukebox**, Inter-hostel rock band (2016); **Director, Kaal**, Inter-hostel filmmaking competition (2016)
  - **Director, House day video**, garnered **230,000+** views on YouTube, covered by **Indian Express**, Storypick (2016)
- Creative** : *Awarded **Best Design** in the entire institute by Board for Student Publications on All Boards Night* (2017)
  - **Winner, Gazettale**, Inter-hostel magazine making; Awarded **Significant Contribution** to Cultural Activities (2017)
  - **Winner, Best out of waste**, Makerspace IITD, Awarded by HoD, Design dept. for impeccable product design (2018)
  - **Runners-up, BSP Trophy**, spearheaded hostel to win 1st trophy across any board after 7 years, BHM Night (2017)
  - **Runners-up, Best stall trophy**, BHM Night, Ideated & led execution of **art installation** themed '*depression'* (2018)
  - **Chief Editor, Rhianon**, a self-initiated project to publish **1st ever Yearbook** in VindhyaChal hostel's history (2017)



# UTTAM SHUKLA



## ACADEMIC DETAILS

| Year | Degree / Board              | Institute                             | GPA / Marks(%) |
|------|-----------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Civil Engineering | Indian Institute of Technology, Delhi | 7.374          |
| 2015 | C.B.S.E                     | Delhi Public School , Kalyanpur       | 91.8           |
| 2013 | C.B.S.E                     | Delhi Public School , Kalyanpur       | 9.8/10         |

## SCHOLASTIC ACHIEVEMENTS

- **KVPY Fellow:** Among top **0.1%** candidates to be selected by Department of Science and Technology India, 2014.
- **NTSE :** Got selected for the interview of the prestigious **National Talent Search Examination Scholarship**, 2013.
- Awarded '**Certificate of Merit**' for state-wise Top 1% in **National Standard Examination – Physics, Chemistry**, 2014.
- Pursuing a minor degree in **Economics** under the **Department of Humanities and Social Sciences**, IIT Delhi.

## INTERNSHIPS

- **Siemens Ltd. India** (May, 2018 - July, 2018): *Condition-based Maintenance.*
  - Successfully employed **Condition based Maintenance** techniques to determine the *Failure Conditions* for (turbine) **Engine Units**.
  - Effectively accomplished **statistical analysis** and **correlation mining** to prepare the *mass engine sensor data* for further analysis.
  - Used **regression techniques** to isolate variables, along with *box plot* and *time series decomposition* to filter sensor data
  - Using **Team Center**, compiled and collated all the relevant data in order to present a different report for a new project.
- **Siemens Ltd. India** (May, 2017 - July, 2017): *Civil Rehabilitation Project.*
  - **Worked** out with a team of global experts to **evaluate** the soundness assessment of the SIEMENS building to assess the extent of deterioration, due to aging effect, change in the loading etc and drafted a plan of action for implementation.
  - Contributed significantly to the development of a safe environment for the employees of SIEMENS to work in ease.
  - **Designed** a water proofing system for chillers and the roof top, which **increased the stability** of the SIEMENS building.
  - Received “ **excellent overall performance certificate** ” for commendable work ethics and team skills.
- **Shadow**, Bokaro Steel City (December, 2017 – December, 2017): *Social Internship*
  - Large Scale Distribution of **3,00,000+** seeds of a variety of crops to farmers in **11** different villages in Bokaro District (Jharkhand).
  - Undertook the task of organising a two day primary teaching camp in each of the **11** villages for the children of the natives.

## EXTRA CURRICULAR ACTIVITIES

- **Volunteer, Lakshyam** (March, 2016- April, 2016)
  - **Actively** volunteered for '**Lakshyam Teaching Project**' under NSS, IIT Delhi to impart education to underprivileged children and involved them in several recreational activities (music, dance etc) throughout my tenure as a volunteer.
- **Volunteer, National Association For Blind** (March, 2017 - April, 2018)
  - Made **diligent efforts** to teach Blind students at NAB, R.K Puram, assisting them in preparing for final examinations.
  - Using **dragon speech recognition software**, aided removal of errors in a few books and conversion of books to speech.
- **Runner-up**, Inter hostel BHM Stall decoration, 2018: **Envisioned** the theme, guided juniors and batchmates in execution.
- **Chief Organizing member, Dangal** (Intra Hostel Sports Fest), 2017: First of its kind, involving a spectra of indoor and outdoor games.
- **Revive**, Intra Hostel Cultural fest, 2017: Part of the team that **conducted** events across various clubs (drama, dance etc).
- **Extravaganza**: Winner, 2016 (Cricket) and Runner-up, 2017 (Football); organized by the Civil Engineering Society, IIT-D.
- **Inter Hostel Street Play**, 2016: **Directed** the play, and **managed** all the necessary resources required for regular practices.
- **Inter DPS Basketball**: **2nd runner up** in **Inter-DPS Basketball**, 2011 and was awarded *Best Player of the Tournament*.

## POSITIONS OF RESPONSIBILITY

- **Hostel Mess Secretary** (May, 2017 – April, 2018) :
 

*Elected unanimously by 300+ residents, leading a team of 15 for budget allocation and proper functioning of the mess.*

  - **Pioneered** Pay Per Meal system and Transparency, aimed at **reducing** mess fees of all hostel residents by **upto 15%**
  - **Incorporated** **Online System** for mess related issues and **resolved** them with the help of the **Mess Working Committee**
  - Successfully established self-cooking pantry facility, 1st of its kind at IIT-D. Conceptualized separate heads for cooking, hygiene etc. Initiated waste minimization based on statistical demand management through regular surveys.
- **Hostel Dramatics Club Representative** (Apr, 2016 - May, 2017) :
  - **Conducted** several **dramatics workshop** for freshers, thus **providing them** with a path to the **Institute Dramatics Team**.
  - **Coordinated** with a **team of 13** and **managed** all the flagship events of the **dramatics club** at *Rendezvous, 2016*.
- **Hostel Squash Captain** (Apr, 2016 - May, 2017) :
  - **Organized** training camp to identify and **mentor 20** talented individuals, provided them with all resources for efficient practices.
  - **Arranged** **regular matches** for hostel residents with professional players from inside and outside the institute.
- **Executive, Civil Engineering Society, IIT Delhi** (Apr, 2016 - Apr, 2017) :**Organized** several **Civil Engineering** workshop for the dept freshers, **Extravaganza** (sports fest) and **Dimensions** (technical fest) of the **Civil Engineering Society, IITD**.



# VARUN GUPTA

## ACADEMIC DETAILS

| Year | Degree / Board              | Institute                             | GPA / Marks(%) |
|------|-----------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Civil Engineering | Indian Institute of Technology, Delhi | 7.529          |
| 2014 | UP Board                    | BDS Inter College                     | 87.4           |
| 2012 | UP Board                    | BDS Inter College                     | 87.0           |

## SCHOLASTIC ACHIEVEMENTS

- Intl. Publication:** Gupta V. et al, "5-Point DuPont Analysis of Household & Personal Product Companies", IJAMR (2018)
  - Collected financial statements of 7 BSE200 listed companies & examined the **correlation between CCC and ROE**
- Research Study:** Testing of Structural & Geological Materials in Shock Tubes to investigate effects of explosions (2018)
- Certificate of Excellence:** Awarded by **National Informatics Centre**, Dept. of Information Technology, Govt. of India (2010)

## INTERNSHIPS

- JSW Group, Mumbai** (May, 2018 - July, 2018): *Investment Opportunities in Blockchain Ecosystem (JSW Ventures)*
  - Apprehended blockchain comprehensively to understand pros & cons and its potential penetration in some major sectors
  - Analysed **FinTech, Supply Chain & Real Estate** industries to explore both, tangible & intangible benefits of blockchain
  - Evaluated the potential market size of blockchain through interactions with **8+ CXOs** of different start-ups in the space
  - Devised a **4-step strategy** for JSW Ventures to identify potential **investment opportunities** in the blockchain ecosystem
  - Recommended a start-up for investment purposes to Executive VPs of the firm based on investment strategy developed
- Samadhan Technologies, Delhi** (May, 2017 - July, 2017): *Bluetooth based Beacon Services (Sales and Marketing)*
  - Performed market research & identified beacon applications; created publicity videos and presentations for B2B tie-ups
  - Examined consumer behavior based on **click data patterns** recorded to develop the store-specific marketing strategies

Awarded **Letter of Recommendation** by the Founder-CEO for in-depth analysis and commendable work accomplishment

## PROJECTS

- Effects of Demonetization (Prof. Reetika Khera)** (Mar, 2017 - Apr, 2017): Part of Course Curriculum, *Intro. to Economics*
  - Interviewed traders and laborers belonging to diverse **backgrounds & income-ranges** to realize effects of the move
  - Analysed the responses collected to document **monetary & time-related losses** as a function of 3-tier income status
  - Examined & comprehended the quality & success of demonetization from economical and non-economical perspectives

## POSITIONS OF RESPONSIBILITY

- Maintenance Secretary, BHM**, VindhyaChal Hostel (Apr, 2017- March, 2018): *Elected unanimously by 350+ hostel residents*
  - Led a team of 8 members to solve problems leading to improved living conditions; negotiated **budget increment of 132%**
  - Facilitated full-fledged daily needs store to cater requirements of residents; **upgraded** 4-year old hostel infrastructure
  - Served as a crucial member of hostel welfare committees, solving chronic hostel issues through dedicated authorities

Awarded **Outstanding Contribution to BHM**, highest recognition for exemplary contribution at Institute and Hostel level
- Representative, Hindi Samiti, BRCA** (Apr, 2016- Mar, 2017): *Elected as part of a 13 member team to manage 10+ events*
  - Fostered a positive culture of the club increasing student participation by **3 fold**; negotiated **budget increment of 50%**
  - Successfully managed publicity and logistics in **4+ National level events** in Rendezvous'16 and **5+ Institute level events**
  - Organised an annual Hindi Samiti Intra-Hostel Festival for hostel residents with multiple rounds of different club events
- COPMIN** (Apr, 2018 - Present): **Anti-ragging committee** to prevent exploitation of power by senior students on freshers

## EXTRA CURRICULAR ACTIVITIES

- Cultural:** Participated in 10+ institute and national level competitions & secured podium finishes across multiple genres
  - **Winner, Anuvaad:** Inter-Hostel descriptive translation competition organized by Hindi Samiti, BRCA, IIT Delhi (2017)
  - **Runner-Up, Abhivyakti:** National-level creative writing competition organized by Rendezvous, BRCA, IIT Delhi (2017)
  - **Runner-up, BSP:** Spearheaded VindhyaChal Hostel to win the first trophy across any board after 7 years (2017)
  - **Runner-up, Inter-hostel BHM Stall Trophy:** Ideated entire stall and led freshers to realize the theme "Depression" (2018)
  - **2nd Runner-Up, Prashnaban:** Mythology quiz and word games organized by, Hindi Samiti, BRCA, IIT Delhi (2017)
  - **2nd Runner-Up, Constructions:** Animation competition on SolidWorks organized by Tryst, CAIC, IIT Delhi (2018)

Awarded **Cumulative Outstanding Contribution to Hostel Activities**; highest honor presented for exceptional performance
- Social Ventures:** Worked for Social Welfare initiatives including RTE, Green Warrior, Road Safety and Collection Drive
  - **Akhil Bhartiya Kalyan Sansthan:** Spread awareness of **5+ Govt. reforms** like NREGA in **10+ villages** through field trips
  - **NAB-Digital Talking Book Library Program:** Mentored blind students and worked on text to speech OCR software
  - **Project Eklavya, RTE:** Envisioned to enroll more than **1 million** underprivileged students for high-quality education by 2020



# VISHAL KUMAR MAURYA



## ACADEMIC DETAILS

| Year | Degree / Board              | Institute                             | GPA / Marks(%) |
|------|-----------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Civil Engineering | Indian Institute of Technology, Delhi | 7.952          |
| 2015 | UP Board                    | SSMABC                                | 86.8%          |
| 2013 | UP Board                    | SVUVM                                 | 90%            |

## SCHOLASTIC ACHIEVEMENTS

- **Bestowed Certificate of Excellence** by erstwhile Chief Minister of U.P. Akhilesh Yadav for securing District **Rank 2** in class X (2013)
- **Certificate of Merit and Excellence** : Accredited for Academic Brilliance for Three Consecutive Years at school (2012-14)
- Qualified "Bhartiya Sanskriti Gyan Pariksha" a state level descriptive paper based on Indian Culture and History (2012)

## PROJECTS

- **Source control SWM for mitigating the impacts of urbanization on baseflow** (B.Tech Project) (July 18 - Present):
  - Analyzing the major causes of flooding in urban area and Working on a model to improve the existing drainage system
  - Working on Models like LID & BMP to evaluate gray infrastructure storm water control strategies,such as pipes & storm drains
- **Ground Improvement Technique using Fibers in Soil Engineering** (Course Project) (Chakraborty Tanusree) :
  - Successfully **Designed and Operated** a mixing tool to improve the bearing strength of underlying soil by mixing fibers
  - Performed various test on the soil sample to get optimum fiber content and fiber length to obtain max strength of ground
  - Conducted the experiment with different stabilizing material such as fly ash & lime and compared the result obtained from fibers
- **Structural Design, Detailing and analysis of RC and Steel structures** (Suresh Bhalla) (July, 2018 - Present) :
  - **Designing** an industrial steel shed building consisting of a portal frame and performing 2D load analysis in STAAD
  - **Formulating 3D model** of an unsymmetrical RC building and executing 3D structural analysis for load combinations

## INTERNSHIPS

- **Delhi Metro Rail Corporation (DMRC)**, New delhi (May 2018 - July 2018) :
  - Studied the **Design and Construction of Tunnel** by shield TBM, Tunnels, Stations and Ramp by cut and cover method
  - *Provided Technical assistance* to workers, such as **Interpretation of a Drawing** and Assisted them to increase the productivity
  - Coordinated with manager for **Performance Monitoring**, maintenance of normal inventory & evolution of new product

## EXTRA CURRICULAR ACTIVITIES

- **Cultural and Sports:**
  - **Inter-IIT** : Secured *4th position* with Institute hockey team in 52nd Inter IIT Sports Meet held at IIT Madras (2017)
  - **Winner, Gold medal**, with Institute Hockey team; in *Sangram'18* , Annual sports festival IIT Roorkee (2018)
  - **Winner, Silver medal**, with Institute Hockey team; in *BOSM'17*, Annual sports festival BITS Pilani (2017)
  - **Winner, Bronze Medal**, with Institute Hockey team; in *Udghosh'17*, Annual sports festival IIT Kanpur (2017)
- **Inter-Hostel:** Trained 1st year UG and PG students and assisted them in development of their hockey skills from scratch
  - **Initiated regular practice** matches with Other hostel teams & **fostered** match Temperament & Unity among teammates
- **Runner-up**, Inter hostel BHM Stall Trophy : Conceptualized entire stall and led the freshers to execute the idea (2018)
- Worked on the Hostel's Freshers Magazine: *House of the Phoenix*; **Managed** entire process from ideation to execution
- **Social Endeavors:** Worked for social welfare which includes NAB, Collection drive and various teaching projects.
  - **National Association of Blind** (2016-2017): Empowered Visually challenged students of India to lead a dignified life
  - **Taught and mentored underprivileged students** and helped them with their academics and holistic development
  - Worked on **Text to Speech Software** to provide reading material for visually impaired students in accessible format
- **Lakshyam Teaching Project:** Volunteered to educate underprivileged students in slums area of Vasant Kunj
  - Taught the underprivileged kids & provided them with opportunities to learn and complete in this fast growing world
- **Training and Placement Cell:** Volunteered for *T&P Cell, IIT Delhi* and ensured smooth organisation of recruiting process

## POSITIONS OF RESPONSIBILITY

- **Gym Secretary, Vindhyachal House (April, 2017 - March, 2018) :**
  - **Revamped Gym room** by producing up to date machinery, pending for 10 years; achieved a total cost saving of 26%
  - *Developed an online suggestion* portal system for continuous improvement and regular maintenance of equipment
- **COPMIN, Anti Ragging Committee (April 2018 - Present):**
  - Keeping regular check on ragging activities;Ensuring safety & smooth transition of the fresher into college environment
  - Organizing joint sensitization programme for students regarding ills of ragging and legal consequences of the violation
- **Maintenance Committee:** Part of a *9 member team* which looks after various maintenance related issues of *300+ residents*.
  - Micromanaged the budget of hostel for Maintenance and renovation of TV Room Involving a new television set & chairs



# YASH AGARWAL



## ACADEMIC DETAILS

| Year | Degree / Board                       | Institute                             | GPA / Marks(%) |
|------|--------------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Civil Engineering          | Indian Institute of Technology, Delhi | 8.851          |
| 2015 | Central Board Of Secondary Education | Step by Step High School              | 95.0%          |
| 2013 | Central Board Of Secondary Education | Saint Xaviers Sr. Sec. School         | 9.4            |

## SCHOLASTIC ACHIEVEMENTS

- Department Rank 4:** Among 105 students at the end of the sixth semester, Civil Engineering Department (2018)
- ITD Semester Merit Award:** Conferred scholarship **4 consecutive times** for being ranked amongst **top 7%** students (2017)
- UG Teaching Assistantship:** **1 of 60** selected from entire batch of 800+ based on extraordinary course performance (2018)
- Int'l Publication:** Agarwal Y. et al, "5-Point DuPont analysis of Household & Personal Product Companies", IJAMR (2018)
- KVPY Fellowship Award:** Amongst top 1% students selected through a rigorous 2 tier process by DST, GoI (2015)
- NTSE Scholarship:** Awarded after 2-tier evaluation by National Council for Educational Research and Training (2013)

## INTERNSHIPS

- Asian Development Bank, New Delhi** (Nov, 2017-Dec, 2017): *Modernisation of agricultural cooperatives in Rajasthan*
  - Conducted a study across 6000+ farmer cooperatives in Rajasthan for driving **USD 200 million investment** by ADB
  - Trebled existing loan portfolio to USD 7.5 billion by formulating a pledge loan facility to deliver better credit to farmers
  - Proposed **20% wage increment** through changes to co-op institutional framework for marketing of agricultural produce
  - Designed direct connectivity between farms & cold-chain storages with **30% reduction in crop & grain losses** incurred
- Ernst & Young LLP, Transaction Advisory Services** (May, 2018 - Jul, 2018): *Invest India, GoI's Initiative*
  - Profiled **6 sectors** (including Auto & Telecom) & **2 states** (Bihar & Gujarat), for potential investors via FDI markets database
  - Anchored investors from strategic trading partners (USA, Russia, Singapore) for **incremental FDI inflow** in identified sectors
  - Awarded **Letter of Recommendation** by Adil Zaidi (partner) for in-depth analysis and exemplary work accomplishment
- KPMG Advisory Services Pvt. Ltd.** (May, 2017 - Jul, 2017): *Knowledge partner for World Food India, MOFPI*
  - Analysed 650+ firms to **assess growth potential** & FDI investment opportunities in dairy, sugar, & oil industries in India
  - Drafted KPMG's deliverables to the Ministry of Food Processing Industries aiding to the organization of *World Food India*

## POSITIONS OF RESPONSIBILITY

- Tryst, IIT Delhi** (Sep, 2017 - Present): *North India's largest techno-management festival with 100+ events*
  - Core Team Member** (Aug, 2018- Present): Spearheading a 4-tier team of 40+ coordinators and 200+ volunteers
  - Instituted **internal review system** for the team with cumulative rewards, enabling continuous monitoring and evaluation
  - Revamped team structure to increase accountability for **optimizing resource allocation** & reduction in overall expenses
  - Pioneered partnerships & raised finance via embassies association to invite renowned artists fostering cultural exposure
- Guest Lectures Coordinator** (Sep, 2017- Mar, 2018): *Secured largest ever line-up of 20+ eminent luminaries*
  - Managed logistics, publicity and on-ground execution of **10+ events** across diverse fields securing **2000+ registrations**
  - Reduced **travel expenses by 67%** via associations with embassies & 2 college tech-fests to co-fund visit of speakers
- Students Councils** (Apr, 2017- Mar, 2018): *Simultaneously represented the Student Affairs Council & Academic Council Representative, SAC*: Unanimously elected to garner & voice student opinion in apex student affair decision making body
  - Conducted a **sustainability & cost analysis** for eco-friendly transport solutions by surveying existing rickshaw-pullers
  - Representative, CAIC**: Pro-actively strengthened student-faculty interaction; addressed issues at highest academic body

## EXTRA CURRICULAR ACTIVITIES

- Cultural:** Participated in **10+ quizzes** at Institute & National level; secured podium finishes across multiple genres & formats
  - Winner**, Anuvaad, Inter-Hostel descriptive translation quiz organized by Hindi Samiti, BRCA, IIT Delhi (2017)
  - Winner**, Enquesto, Inter-college civil Engineering quiz competition organized by Tryst, CAIC, IIT Delhi (2017)
  - Runner-up**, BSP Trophy; Spearheaded VindhyaChal Hostel to 1st trophy across any board after 7 years (2017)
  - Runner-up**, BHM Stall Trophy Interhostel; Ideated, led juniors & executed the art-themed 'Depression' (2018)
  - Quizmaster**, Chakravyuh, National level quizzing event organized by Rendezvous, BRCA, IIT Delhi (2017)
- Awarded **Outstanding Contribution to Cultural Activities**, VindhyaChal Hostel for excellence in extra-curricular activities
- Social Endeavours:** Interacted with 200+ stakeholders to recommend key interventions directly impacting health & safety
  - Jaipurfoot**: World's **largest** organization rehabilitating **15 lakh+** differently-abled people with artificial limbs and calipers
  - Interacted & surveyed **100+ patients** for a month & suggested improvements in rehabilitation on basis of recorded feedback
  - Muskaan**: Organized a 'road safety orientation' attended by **100+ commercial vehicle drivers** under the initiative *Saarthi*
  - Cut down **fatalities by 10%** by auditing 7 km long BRTS route coordinating with authorities for engineering fault corrections
  - Received **Letter of Recommendation** for successful discharge of responsibility, with the outlook of giving back to society



# ABHAY KUMAR SAROTHIA



## ACADEMIC DETAILS

| Year | Degree / Board                 | Institute                             | GPA / Marks(%) |
|------|--------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Chemical Engineering | Indian Institute of Technology, Delhi | 7.086          |
| 2015 | CBSE                           | New green field academy, Indore       | 89%            |
| 2013 | CBSE                           | Kendriya Vidyalaya no.1, Indore       | 9.6/10         |

## SCHOLASTIC ACHIEVEMENTS

- **Publication:** Sarothia A.K.' *Stable Phase of Diblock Polymer using SCFT in Real Space in 2D and 3D*' Accepted by **IJSR** [2018]
- Secured school **Rank-1** and a **Gold Medal** in **International Mathematics Olympiad** organised by **SOF**[2014]
- Secured school **Rank-2** in **National Science Olympiad** Organised by *Science Olympiad Foundation* [2014]
- **Machine Learning:** Completed Machine Learning Course by Prof. Andrew Ng, **Stanford University** with Score of 96.5%
- **Data analysis with Python:** Completed Data Analysis course and Earned a **Badge** by **IBM** with a Score of 90.4%

## PROJECTS

- **Flash Point Prediction of Organic Compounds** (May, 2018 - July, 2018) :
  - Developed an improved method to predict Flash Point using Boiling Point Temperature of the flammable compound
  - Prediction for new organic compounds was done using *state-of-art machine learning* methodologies
  - Implemented two models for prediction, **linear regression fitting** and the **artificial neural network** model
- **Stable Phases of Diblock Copolymer using SCFT in real space in 2D and 3D** (March, 2017 - may, 2017) :
  - Implemented a Numerical Method in real space (**MATLAB**) to solve the *Polymeric self Consistent Field Equations*
  - **Pseudo-Spectral Method** is used which uses **Fourier space** and has higher accuracy than central difference method
  - Applied this method to AB Linear Diblock Copolymer for Comparable and Non-Comparable volume fractions of Polymers
- **Ethanol synthesis from carbon dioxide**(March, 2018 - May, 2018) : *Simulation and Cost Analysis* of Selected Pathway
  - Developed *3 potential reaction pathways* and selected one based on **product cost, catalyst cost** and **efficiency**
  - **Aspen+:** Simulated process flow sheet and estimated manufacturing, operating costs and revenue for a *large scale plant*
- **FMCG: Consumption Pattern of soft drinks and the role of Advertising** (March, 2018 - May, 2018) :
  - Detailed Study of Soft Drink Industry and **Psychological Impact** of Storytelling and Communication in **Advertising**
  - Devised a Marketing Strategy for mountain dew soft drink in Accordance with **4A's** and **4P's** of **marketing mix**

## EXTRA CURRICULAR ACTIVITIES

- **Inter college level:** Represented **IIT Delhi** in **Athletics** participating in 6 Tournaments Secured **Podium** in all of them
  - **52nd Inter IIT** sports Meet Madras, Athletics: Winner, **Bronze** medal and Team Finished 4th among 23 IIT's [2017]
  - Winner, **Athletics trophy** with Institute Team along with **2 Gold** and **2 Silver** medals, **SporTech IIT Delhi** [2018]
  - Winner, **Athletics trophy** with Institute Athletics Team along with **1 Gold** medal, **Sangram** IIT Roorkee [2018]
  - Winner, **Athletics trophy**(2nd position) with Institute Team along with **1 Silver** medal, **Udghosh** IIT Kanpur [2017]
  - Winner, **Athletics trophy** with Institute Athletics Team, **Spardha** IIT BHU [2016] and **SporTech** IIT Delhi [2017]
- **Institute level:** Represented Hostel in **Athletics** events securing **Overall Gold** with hostel Team in *All BSA Tournaments*
  - Winner, **1st Position** with Hostel Team along with **3 Gold** and **2 Silver** in Inter-Hostel Athletics Championship [2017]
  - Winner, **1st Position** with Hostel Team in Inter-Hostel Athletics Securing **20 Points**(Highest) for **BSA Trophy** [2018]
- **Regional Games and Sports Meet, Basketball:** Winner, **Second** Position and a **Silver** Medal with School Team[2011]
- **Activity Head, Rendezvous** (2017) : Part of the team that organises events for the annual cultural festival of IIT Delhi.
  - Responsible for **Pitching Street Artist** with events team for competition purpose and performance in Rendezvous
  - Led a team of **7** Team Heads to organise informal events at the time of rendezvous as well as before it for **Publicity**

Awarded **Best Athlete** of the Athletics Inter Hostel 2017 for Securing **Highest Individual Points** among all Competitors  
 Awarded **Outstanding contribution to sports** for Instrumental role in securing the coveted **BSA trophy Twice**

## POSITIONS OF RESPONSIBILITY

- **Captain, Athletics** Team Jwalamukhi Hostel, **BSA** (April, 2017 - April, 2018):
  - Conducted Orientation, Trials and ensured Regular Training Sessions to Maximize Hostel's Participation at *Institute Level*
  - Led **17** member team to **overall Gold** in inter hostel championship contributing **Highest** points to the **BSA point tally**
- **Vice-Captain, Athletics** Jwalamukhi Hostel, **BSA** (April, 2016 - April, 2017) :
  - Formed a **16** Member Team from scratch and led the team to win **Overall Gold** in Inter-Hostel 2017 for the **First time**
  - **Highest individual contribution** with **3Gold 2Silver** and **Highest** contribution to General Championship Point Tally

## TECHNICAL SKILLS

- Python , R , C , LaTeX
- MATLAB, Autodesk Inventor, Aspen+, Adobe Photoshop, MS-Excel



# ABHISHEK GARG



## ACADEMIC DETAILS

| Year | Degree / Board                 | Institute                             | GPA / Marks(%) |
|------|--------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Chemical Engineering | Indian Institute of Technology, Delhi | 6.269          |
| 2015 | CBSE                           | Apeejay School, Pitampura             | 94%            |
| 2013 | CBSE                           | Apeejay School, Pitampura             | 10/10          |

## INTERNSHIPS

- **Maruti Suzuki India Ltd**, Gurgaon (May, 2018 - July, 2018): **Research Intern**
  - Process Study and Analysis of **Polymer based Automotive components**
  - On-the-Job training on various equipments like **FTIR, DSC and TGA** among others
  - Vendor visit at Machino Polymers Ltd to study extrusion process of Polypropylene pellets
- **Deloitte Touche Tohmatsu LLP**, Gurgaon (May, 2017 - July, 2017): **Consulting Intern**
  - **Merger and Acquisition Engagement** including research and assistance on M&A credentials and proposals
  - Part of a team involved in selection of core **ERP system** (Sourcing, Finance, Procurement) for the client
  - Process Validation for Internal Audit for the client

## PROJECTS

- **Chemical Processes (Prof Sreedevi Upadhyayula)** (Course Project) (January, 2018 - May, 2018)
  - Simulation of **Ethanol Synthesis from Glucose**
  - Review of **Potential Reaction Pathways** for the Reaction and **Cost-Benefit Analysis** based on Raw Materials used
  - Fabrication of flow-sheet (PFD), mass and energy balances & application of heat integration using Aspen plus
- **Carbon Trading (Prof Krishna Achutaroy)** (Course Project) (July, 2017 - November, 2017)
  - Study and analysis of **Cap and Trade system** implemented in various countries
  - Research on the feasibility and the way forward to use the system to reduce air pollution as a whole
- **Numerical Methods (Prof Paresh Choksi)** (Course Project) (July, 2016 - November, 2016)
  - Position transitions of polymer-grafted nanoparticles in Diblock-copolymer nanocomposites
  - Use of various algorithms and coding in **C++** to solve the paper
  - Use of **LaTex** to compile and present the report
- **Fluid Mechanics (Prof Jyoti Phirani)** (Course Project) (January, 2017 - May, 2017)
  - Shape of liquid surface in a uniformly rotating cylinder in the presence of surface tension
  - Analysis done to simulate conditions in satellites at zero gravity

## SCHOLASTIC ACHIEVEMENTS

- **Certificate of High Distinction in Mathematics** - International Benchmark Test, ACER, 2012
- **100 percentile in India, 99.5 percentile internationally** - International Benchmark Test, **English**, ACER, 2012
- **Cleared Zonal Informatics Olympiad**, IARCS, 2014
- **Second Position, Mathematics** - Apeejay Olympiad, 2010

## COURSES DONE

Intro. To Computer Science, Transport Phenomena, Material And Energy Balance, Numerical Methods In Chemical, Macro Economics, Climate Change: Impacts, Adaptation & Mitigation, Mass Transfer I, Process Dynamics And Control, Fluid Particle Mechanics, Intro To Industrial Biotech., Mass Transfer II, Chem. Process Tech.& Economics, Biometry

## IIT DELHI THESIS

**Title:** Analysis of rice straw burning and its effect on the city's atmosphere

**Supervisor:** Prof Vikram Singh

**Description:** Ongoing project to analyse the properties of rice straw (heat of combustion etc.) and study its effects on the city atmosphere due to release of particulate matter and gases like carbon dioxide etc. on its burning

## TECHNICAL SKILLS

- **Language and Tools** - C++, LaTex, Aspen Plus, AUTO CAD
- **Proficient in** - MS Word, MS Excel, MS Powerpoint

## EXTRA CURRICULAR ACTIVITIES

- **Social Service: Sulabh International Social Service Organisation** (November, 2017 - December, 2017)
  - Teaching **Physics** and **Mathematics** to students of Class VII at Sulabh School
  - Study of **Innovative Technologies** developed by Dr. Bindeshwar Pathak, Founder, Sulabh Sanitation and Social Reform Movement



# ABHISHEK SINGH



## ACADEMIC DETAILS

| Year | Degree / Board                 | Institute                             | GPA / Marks(%) |
|------|--------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Chemical Engineering | Indian Institute of Technology, Delhi | 7.396          |
| 2015 | Bihar Board                    | R.K.D College                         | 79%            |
| 2013 | C.B.S.E                        | Satyam International                  | 10             |

## SCHOLASTIC ACHIEVEMENTS

- Publication:** Singh A. et al. "Synthesis and Characterisation of Ceria Based Catalysts", IJSR, Online Journal [2017]
- Discover and Learn project (1-2-3-4):** Presented research work under the IRD Unit, IIT Delhi in orientation ceremony [2017]
- Machine Learning:** Completed the online course by Prof. Andrew Ng, **Stanford University** by scoring 96.1% [2018]
- Operational Analytics:** Received Certification for the online course by **University of Pennsylvania** scoring 90% [2018]
- Introduction to Corporate Finance:** Received Certification for course by **University of Pennsylvania** scoring 82.5% [2018]
- Courses:** Completed **Fundamentals of Corporate Management** and **Introduction to Supply Chain Management**

## INTERNSHIPS

- Indraprastha Gas Limited**, R.K Puram, New-Delhi (May, 2018 - July, 2018) : *Queue management at gas stations*
  - Identified reasons behind long waiting queues of automobiles at gas stations, recommended suitable rectifications
  - Revamped the transaction method by recommending complete **digitalization** in place of outdated cash method
  - Proposed for reorganisation of dispensers at the gas stations for efficient working and smooth automobile movement
  - Performed Quantitative analysis on Biogas and PNG to check their overall efficiency for usage in household purposes

## PROJECTS

- Synthesis and Characterization Of Catalysts** (May, 2017 - July, 2017) (*Prof. Ashok N Bhaskarwar*):*independent project*
  - Prepared ceria based catalysts using **Sol-gel** method and characterised them on the basis of various tests performed
  - Used **Microscopic Raman** and **X-Ray diffraction** results to obtain oxygen vacancies & lattice parameter of catalysts
  - Used **Tunneling Electron Microscopy** results to obtain pictures and hence the size of nano particles of catalysts
- Spam Filter** (June 2018 - July 2018) : *independent project*
  - Used SVM along with Gaussian Kernal on multiple random datasets in MATLAB for linear and nonlinear classifications
  - Classified feature extracted emails into spam or non-spam using Support Vector Machine with a high average accuracy
- Handwritten Numeric Digit Recognition** (June 2018 - July 2018) : *independent project*
  - Used **Multi-class Logistic Regression** technique in MATLAB to create appropriate model for handwritten digit recognition
  - Achieved high average accuracy and measure of generalization error for new images using **Cross-Validation** technique

## EXTRA CURRICULAR ACTIVITIES

- Music** : (*club under BRCA*) *Performed in an event at Inter-College level and a myriad at Inter-Hostel level*
  - **Western Group Singing- Rendezvous, A Capella vocalist**, an Inter-College level competition, IIT Delhi [2016]
  - **Group Song- Open Air Theater- Rendezvous, A Capella Vocalist**, Opening Performance in front of entire OAT audience
  - **Winner**, 3rd Position, Mehfil- Vocalist, an Intra-College level Classical Music Competition, IIT Delhi [2016]
  - **Winner**, 2nd Position, **Ragnarok (Battle of the bands)**- Vocalist, Inter-Year level Music Competition, IIT Delhi [2018]
  - **Lead Vocalist in Jukebox**, Inter-Hostel level **Western Music Band Competition**(open-genre), IIT Delhi [2016]
  - Performed A Capella in Consonance -College level musical event -Farewell event for the seniors, IIT Delhi [2016-2017]
  - Performed in Ragnarok (Battle of the bands),**Lead Vocalist**, Inter year level music competition, IIT Delhi [2016]
- Drama** : (*club under BRCA*) *Performed in various Inter-Hostel level events.*
  - **Winner**, 2nd position, Inter Hostel Mime Competition,first of its kind, Production Team,"Chhor Ki Chhori" [2016]
  - **Winner**, 2nd position, Inter Hostel Stage Play Competition, Production Team, "Uljhan"- a mystery thriller [2016]
  - **Winner**, 3rd position, Inter Hostel Stage Play Competition, Production Team and Vocalist,"Bali aur Sambhu" [2017]
  - Performed in Inter Hostel Street Play Competition,**Actor**, "Ek Aakhiri Koshish"-play on social issue about Nomads
- Photography and Films Club**- Inter Hostel Music Video Competition, Production Team, All I Want, **24K+ views** [2016]
- Social Endeavour: Music Masti** (January, 2016 - December, 2016) *National Service Scheme*
  - Volunteered to teach music to underprivileged kids in Munirka slum while some other volunteer used to play guitar

## POSITIONS OF RESPONSIBILITY

- Event and Trip Coordinator, Chemical Engineering Society** (April, 2017 - April, 2018) :
  - Led a team of 6 executives to conduct and coordinate activities among entire PG and UG students throughout the year
  - Organised the department Stall during freshers orientation,clearing out doubts and myths about Chemical Engineering
  - Spearheaded the inter-college level event Chem-e-quiz organised by the department along with **Tryst** IIT Delhi
  - Organised the fresher's event, farewell event, alumni interactions and seminars handling the logistics requirements



# AMAN VERMA

## ACADEMIC DETAILS

| Year | Degree / Board                 | Institute                             | GPA / Marks(%) |
|------|--------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Chemical Engineering | Indian Institute of Technology, Delhi | 7.249          |
| 2015 | CBSE                           | D.A.V. Public School                  | 95.2%          |
| 2013 | CBSE                           | St. Karen's Secondary School          | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- **Machine Learning:** Completed the online course by Prof. Andrew Ng., **Stanford University** scoring 96.9% [2018]
- **Introduction to Supply Chain Management:** Received certification for completing online course, scored 80% [2018]
- **IOM:** Secured **Olympiad Rank 4** in International Olympiad of Mathematics scoring **100/100** marks, **State Rank 1** [2012]
- **IOM:** Secured **Rank 92** in International Olympiad of Mathematics (Lvl-2) scoring 80.6/100 marks, **State Rank 12** [2012]
- **IOS:** Secured **Olympiad Rank 31** in International Olympiad of Science scoring 95.77/100 marks & **State Rank 7** [2012]

## INTERNSHIPS

- **Reliance Industries Limited** (May, 2018 - July, 2018) : *Aspen Model of Process Air Compressor (PAC)*
  - Modeled PAC on **Aspen** calculating efficiency of compressor, turbine & expander as **83%, 95% & 90%** respectively
  - Analysed compressor working, suggested **introduction of industrial chillers** to improve compressor polytropic efficiency
  - Proposed **use of activated alumina** to dry humid air entering into compressor, increasing air flow rate & efficiency
  - Estimated operating cost of chillers on practical scale as **Rs.98.91 lakhs** per year and installation cost of **Rs.10 lakhs**

## PROJECTS

- **Hand-Written Numeric Digit Recognition** (May, 2018 - July, 2018) : *Independent Project*
  - Used multi-class **logistic regression** technique in MATLAB to create appropriate model for handwritten digit recognition
  - Achieved high average accuracy and measure of generalization error for new images using **Cross Validation** Technique
- **Spam Email Classifier** (May, 2018 - July, 2018) : *Independent Project*
  - Used SVM with Gaussian Kernel for linear and nonlinear classification of multiple random datasets in MATLAB
  - Classified feature extracted emails into spam or non-spam using Support Vector Machine with high accuracy
- **Carbondioxide absorption in ionic liquids** (May, 2017 - July, 2017): *Under guidance of Prof. Ashok N. Bhaskarwar*
  - Synthesized amine ions based **ionic liquids** and studied its absorption capacity on semi-batch and foam bed reactor
  - Analyzed the effect of addition of **surfactant** and change in concentration of ionic liquids on their absorption capacity
  - Inspected behavior of ionic liquids on carbon dioxide absorption capacity with increased number of **regeneration cycle**

## POSITIONS OF RESPONSIBILITY

- **Publicity and Content Coordinator, Chemical Engineering Society** (April, 2017 - April, 2018) :
  - Delegated a team of **6** executives to effectively coordinate activities among students throughout the academic year
  - Initiated **first ever** professor interview series, spearheaded publicity of chemical department via social networking sites
  - Designed brochure to pitch companies for sponsorship; Supervised with coordinators ensuring proper conduction of events
- **Design Coordinator, Industry Day** (Aug, 2017 - Sep, 2017) : *First ever Industry Day*
  - Directed highly efficient team of **6**, **designed** and implemented theme posters, banners ensuring proper publicity
  - Assisted along with other team members in designing of **directional layout** of places where event had to take place
  - Managed the technicalities in designing, assisting the team in **fulfilling** of daily requirements and timed completion
- **Representative, Photography and Films Club** (April, 2016 - April, 2017) : *Club under BRCA*
  - Assisted secretary to **manage** and **conceptualize** the flagship events of Photography and Films Club in Rendezvous'16
  - Organized Intra-Hostel events in consultation with club secretary **encouraging** PG participation, spreading the culture
  - Reinforced the culture by organizing photography **workshops**, tutoring freshmen and **guiding** the hostel in club events

## EXTRA CURRICULAR ACTIVITIES

- **Photography and Films Club:** Participated in Inter Hostel Movie Making, Stop Motion & Graphic Design [2015]
  - **Winner**, 1st Position, Photography and Films Club event **Rendezvous**, cultural festival of IIT Delhi, "**Snap Story**" [2016]
  - **Winner**, 2nd Runner-Up, Inter Hostel Music Video Making Competition, Cinematography and Editing Team [2017]
  - **Directed** and edited music video "All I Want" in Inter Hostel Music Video Competition, **25k views** on YouTube [2016]
  - **RDV'16 Activity Head**- Managed and ensured logistic requirement of participants concerned with event are fulfilled
- **Designer, NSS Magazine** (January, 2017 - July, 2017) : *First ever NSS magazine published*
  - Collaborated in designing and publishing of the **first** magazine "Fullstop" of National Service Scheme, IIT Delhi
  - Envisioned, shot and edited theme specific **cover** photo of magazine; Covered events and places with NSS team
- **Dramatics Club : Winner**, 1st Runner-Up, Inter Hostel Stage Play Competition, member of Production Team, "**Uljhjan**" [2016]
  - **Winner**, 1st Runner-Up, Inter Hostel Mime Competition, member of Production Team, "**Chor Ki Chori**" [2016]



# AMITESH RATHI



## ACADEMIC DETAILS

| Year | Degree / Board                 | Institute                             | GPA / Marks(%) |
|------|--------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Chemical Engineering | Indian Institute of Technology, Delhi | 8.447          |
| 2015 | CBSE                           | DPS, Bhopal                           | 94             |
| 2013 | CBSE                           | DPS, Bhopal                           | 10             |

## SCHOLASTIC ACHIEVEMENTS

- Student Exchange:** Ranked 11 out of 850 students ; Selected for an exchange semester at INSA-Lyon, France (2017)
  - Participated in a conference "Journée Internationale" represented and promoted IIT Delhi and India during conference
- Minor area in Economics:** Completed 11 out of 20 credits required for minor in economics from Humanities Dept (2018)
- Kishore Vaigyanik Protsahan Yojna Scholar: AIR 98;** Awarded by Dept. of Science and Tech., Govt. of India (2015)
- National Talent Search Examination (NTSE):** Awarded merit certificate and fellowship by NCERT, Govt. of India (2011)
- Investment and Portfolio Management:** Received certificate for 5-course online specialization, Rice University (2018)
- Trading Strategies in Emerging Market:** Received a certificate for a 5-course online specialization, ISB (2018)
- Managerial Economics and Business Analysis:** Received a certificate for 7-course online specialization, UIUC (2018)
- Machine Learning:** Successfully completed Machine Learning online course by Stanford University, Andrew Ng (2018)
- Technotholon (Techniche,IIT Guwahati):** Secured rank 190 among participants from 400+ cities all over India (2011)
- National Standard Olympiads:** Among top 1% in National Standard Exam in Physics; qualified for INCho, INAO (2014)

## INTERNSHIPS

- Reliance Industries Ltd.** (May,2018 - July,2018) : *Techno-Economic and Monte Carlo analysis on biofuels generation*
  - Reviewed literature related to biofuels, Techno-Economic assesment, data handling techniques, Monte Carlo analysis
  - Used **process economics** to estimate minimum fuel selling price and payout period on commercial scale biofuel plant
  - Implemented **sensitivity analysis** on the techno-economic model of waste to wealth plant with 11 parameters as variables
  - Performed Monte Carlo analysis to estimate payout period, fuel selling price with 10000 iterations on **RISK and Excel**
  - Awarded **Pre-Placement Offer** for excellent performance in Algae to Oil Department, Mumbai, Reliance Industries Ltd.
- University of Manchester, Manchester** (May, 2017 - July, 2017) : *Study of properties of crystals of Benzophenone*
  - Reviewed literature available related to crystallization, growth of crystals and incorporation of impurities in the crystals
  - Designed solubility curves of Benzophenone in different solvents with variance in temperature by gravimetric analysis
  - Estimated effect of impurities on solubility of Benzophenone; used **HPLC technique** to analyze composition of solutions
  - Analysed crystal growth rate of Benzophenone with different levels of super saturation and different types of impurities
  - Awarded **Letter of Recommendation** for the novel work done during the internship on crystallization of benzophenone

## PROJECTS

- Global Alpha Researcher, Trexquant Investment LP** (Dec, 2016 - July, 2017) :
  - Investigated and implemented recent academic research related to stock market to generate alpha ideas and signals
  - Developed profitable market-neutral, medium-frequency Alphas based on real-word data on the **MATLAB** interface
- Preparation of stable emulsion of PPD (Dr. Vikram Singh)** (July, 2016 - Dec, 2016) :
  - Prepared stable emulsions of Pour Point Depressant stable below 10°C for Thermax, a pioneer in chemical synthesis
  - Developed emulsions of different conc. of Xylene-PPD with water using ultrasonicator; used Triton X-100 as surfactant
  - Synthesized emulsions of Xylene-PPD using water cooled high speed mixer, suitable for production at large scale

## EXTRA CURRICULAR ACTIVITIES

- Content Developer :** Developed articles on the topic of psychology for Atomicles (Startup by IITD graduates) (2016)
- Cultural Talent Search drama scholarship :** Awarded for outstanding performance in the field of dramatics (2009)
  - One of the **8 people** selected for the scholarship all over India by Centre for Cultural Resources and Training, Govt. of India
- Runner up,** Mock stocks, Stock market simulation Competition, Tryst, annual science and technical fest, IIT Delhi (2018)
- Runner up,** Chem E-Quiz, Chemical engineering related quiz, Tryst, annual science and technical fest, IIT Delhi (2018)
- Social endeavours:**
  - Munirka Project: Taught course contents and introduced **innovative methods** to guide underprivileged children (2016)
  - Volunteered with Shree Lalita Samajik Seva Samiti for **expanding the market** for selling of their current products (2017)
- Vigyan Manthan Yatra:** Part of a trip to various research institutes in Hyderabad organized by DST, Govt. of MP (2012)
- INSPIRE Science camp:** Attended Science camp sponsored by Dept. of Science and Technology, Govt. of India (2013)
- Hostel related competitions:** Active participant in sports activities
  - 3rd position in inter hostel level water polo competition (2016)
  - Part of the hostel team in inter hostel level water polo competition (2015)



# ANIKET KUMAR



## ACADEMIC DETAILS

| Year | Degree / Board                 | Institute                             | GPA / Marks(%) |
|------|--------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Chemical Engineering | Indian Institute of Technology, Delhi | 6.474          |
| 2014 | CBSE                           | D.A.V. Public School, Bariatu         | 78.5/100       |
| 2012 | CBSE                           | D.A.V. Public School, Bariatu         | 9.6/10         |

## SCHOLASTIC ACHIEVEMENTS

- **Machine Learning:** Completed online course by professor Andrew Ng, Stanford University, scored 96.4% [2018]
- **Courses:** Online courses 'Intro. to Supply Chain Management' & 'Fundamentals Of Corporate Management' [2018]
- **PSA:** Secured 98.56 percentile in quantitative reasoning, national level exam organized by CBSE [2013]

## INTERNSHIPS

- **TATA Steel, Jamshedpur** (May 2018 - July 2018): *Study & rectification of losses for the optimization of specific water consumption*
  - Comprehended numerous processes of steel making, water circuits and wastewater treatment plants at LD2 & SC
  - Identified **17 problems** and figured out solutions, validated 7 cost-effective ones, tabulated them for future reference
  - Proposed remedies to cut down makeup water requirement, reducing stress on Subarnarekha river, old problem for the plant
  - Implemented **1 out of 7**, saving about **175,000 L** water per day & pushed others into planning for implementation stage

## PROJECTS

- **Handwritten Numeric Digit Recognition** (May 2018 - June 2018): *Independent project*
  - Used **Multi-Class Logistic Regression** technique in **MATLAB** to create appropriate model for handwritten digit recognition
  - Achieved high average accuracy & measure of generalization error for new images using **cross-Validation** technique
- **Spam Email Classifier** (June 2018 - July 2018): *Independent project*
  - Used SVM along with Gaussian Kernel for linear and nonlinear classification of multiple random 2D datasets
  - Classified emails into **spam and non-spam** after feature extraction using Support Vector Machines with high accuracy
- **Droplet formation from a micrometer screen hole** (Jan 2017 - May 2017): *under the guidance of Prof. Jyoti Phirani*
  - Analyzed effect of **flow rate** and **interfacial tension** on droplet formation by applying force and torque balance equations
  - **Replicated** the variation of forces on droplet formation and henceforth analysing the characteristics of droplet formed

## EXTRA CURRICULAR ACTIVITIES

- **Photography and Filmmaking Club:** Participated in Inter Hostel Movie Making, Stop Motion & Graphic Design[2015]
  - **Winner**, 1st position, Photography and Films Club event **Rendezvous**, cultural festival of IIT Delhi, "Snap Story" [2016]
  - **Winner**, 2nd Runner-Up, PFC Inter-Hostel Music Video Making Competition, part of production Team [2017]
  - Director & cinematographer, Inter-Hostel music video making, "All I Want", credited **special mention**, 25k views [2016]
  - **Activity Head, Rendezvous**, assisted club secretary, managed & ensured logistic requirements for the club events [2016]
  - Directed & shot House day video, souvenir for final years, coordinated with 100 passing outs, managed 4 member team
- **Drama:** *Performed in various Inter-Hostel level events*
  - **Winner**, 2nd position, Inter-Hostel Mime Competition, member of Production Team, "Chor Ki Chori" [2016]
  - **Winner**, 2nd position, Inter-Hostel Stage Play Competition, Production Team, "Uljhan" - play on 3 dead people [2016]
- **Music Club** - Performed as the bass guitarist in the fusion themed inter-hostel level music competition "Mixtape" [2017]
- **Designer & Photographer, NSS Magazine** (Jan, 2017 - Jul, 2017):
  - Collaborated in designing and publishing of the **first magazine** "Fullstop" of National Service Scheme, IIT Delhi in 2017
  - Arranged, shot & edited the theme specific **cover** photo of magazine and shot relevant photos for magazine stories
- **Social Endeavour:** Regular blood donor, donated 4 units of blood in 3 years through BloodConnect & NSS, IIT Delhi

## POSITIONS OF RESPONSIBILITY

- **Audio & Visuals Coordinator, Industry Day** (Aug 2017 - Sept 2017): *Under Corporate Relations Office, IIT Delhi*
  - Supervised the team of **10 skilled members** for the successful conduction of the **first Annual Industry meet** in IIT Delhi
  - Managed **6 parallel events** at different venues and successfully met on the spot requirements of the guest speakers
  - Coordinated proficiently with LHC staff's team to manage sound, projectors and other logistics for smooth sailing of event
- **Publicity and Content Coordinator, Chemical Engineering Society** (April 2017 - April 2018):
  - Delegated a team of **6 executives** to effectively coordinate activities among students throughout the academic year
  - Initiated **first ever** professor interview series, spearheaded publicity of Chemical Department via social networking sites
  - Designed brochure to pitch companies for sponsorship; Supervised with coordinators ensuring proper conduction of events
- **Mentor, Student Mentorship Programme** (April 2017 - April 2018):
  - Guided **5 first-year students** for their smooth transition into IIT Delhi, helping with their new life and mentoring them
  - Counselled the mentees and along with SMP coordinators, raised their problems at appropriate fora to resolve the matter



# ANSHIL CHANDRA



## ACADEMIC DETAILS

| Year | Degree / Board                 | Institute                             | GPA / Marks(%) |
|------|--------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Chemical Engineering | Indian Institute of Technology, Delhi | 6.451          |
| 2014 | CBSE                           | Bijendra Public School, Purnea        | 84.2%          |
| 2012 | CBSE                           | Millia Convent English School, Purnea | 10.0 CGPA      |

## SCHOLASTIC ACHIEVEMENTS

- **Nationwide Interactive MATHS OLYMPIAD:** Awarded the merit certificate and medal with **National rank 38** and **State rank 3** in 2008.
- **CBSE:** Awarded with **certificate of merit** for **outstanding performance in all subjects** in exam 2012.

## IIT DELHI THESIS

- **RO Membrane module for groundwater treatment:** (Prof. K. K. Pant) (July, 2018 - Present):
  - Work is to be focused mainly on the product design of a RO membrane based water treatment plant (a prototype initially) which could serve drinkable water upto 450 gallon per day in rural areas without using electricity. Pressure required will be applied using applications of pascal's law, hydraulic pressure, Bernoulli's theorem, torque analysis, tangential RO etc.
  - And other part of work to be focused on the optimization of flow rate of pure water, reducing waste water to purified water ratio, and increasing the durability of membrane used.

## PROJECTS

- **PCB Circuit Design (Prof. Mukul Sarkar)** (May, 2016 - June, 2016): Designed a conductive pathway using EAGLE and came up with a product(circuit board) which can be used to mechanically support and electrically connect electronic components.
- **Nanoscale Ferro-fluid (Prof. Jayati Sarkar)** (May, 2017 - July, 2017):
  - Led the foundation for research on ferro-fluid, involved preparation of nano scale magnetite samples (ferrofluid).
  - Ammonia and sodium hydroxide used for co precipitation and then studied its morphology.
  - Due to oxidation of Fe(II) and non-ideality of reaction, experiments were done using different salt concentration ratios.
  - Magnetite as product was successfully produced and the betterment in product quality was proved by testing with XRD(X-ray diffraction), DLS(Dynamic Light Scattering), FTIR(Fourier-transform infraredspectroscopy)& TEM(Transmission electron microscopy).
- **Steam Reforming of methane to methanol (Prof. S. Upadhyayula)** (Feb, 2018 - May, 2018):
  - Developed a PFD of the process involving suitable reaction and pathway after selecting all required equipments.
  - Applied mass & energy balances, simplified heat exchanger network and ran simulations of the process on Aspen Plus.
  - Cost analysis was done for the process and optimizations were applied to maximize the profit.
- **Intervention plan for drainage near Chaayos, IIT Delhi (Prof. Naveen Thayyil)** (Feb, 2018 - May, 2018): Proposed a two stage drainage treatment plant that involved the applications of fluid mechanics, sedimentation and buoyancy.

## TECHNICAL SKILLS

- languages: Java, C++, Python. Softwares: MATLAB, Aspen Plus, Autodesk Inventor, Eagle.
- courses done: Data structures (Linked Lists, stacks & queues, Trees, Hashmaps), Object Oriented Programming, Dynamic Programming.
- Did Ethical hacking and Information technology that involved Cyber Ethics, System Hacking, Reverse Engineering, web application Hacking, Wireless Hacking and Cyber Crime Investigation.

## POSITIONS OF RESPONSIBILITY

- **Captain, Cricket** (April, 2017 - March, 2018):
  - Led the team of 16 to win gold medal in Inter Hostels.
  - Created indomitable sports spirit in hostel by motivating promising players and organizing regular practice sessions.

## EXTRA CURRICULAR ACTIVITIES

- Won gold medal in (2015-2016) & silver medal in (2016-2017) in Inter Hostel Cricket tournament.
- Led my team (as captain) in winning gold medal in Inter Hostel Cricket (2017-2018) tournament.
- Inter Hostel Snooker (2016-2017) & (2017-2018) tournament and won bronze medal for hostel last year.
- Represented Karakoram Hostel in Inter Hostel Charcoal painting(2016-2017) & 3-D Sculpture art(2016-2017).
- **Rendezvous (2016-2017)&(2017-2018):** Managed and mapped security of North India's biggest cultural festival and enhanced the overall crowd experience being Team head in (2016-2017) & being Activity head in (2017-2018) and supervised more than 100 team heads and security guards.
- Did Road safety internship with TRIPP IIT Delhi(December, 2015) at accident prone spot of NH57 at Kasba, Purnea, Bihar, did a survey and pointed out problems and then discussed the problems and proposed a solution to the designated officer of transport department of that area. Work can be seen there done after my effort.



# BHAVYA DHURIA



## ACADEMIC DETAILS

| Year | Degree / Board                       | Institute                             | GPA / Marks(%) |
|------|--------------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Chemical Engineering       | Indian Institute of Technology, Delhi | 7.037          |
| 2015 | Central Board of Secondary Education | Faith Academy School, Delhi           | 93.2%          |
| 2013 | Central Board of Secondary Education | Faith Academy School, Delhi           | 8.2/10         |

## SCHOLASTIC ACHIEVEMENTS

- **International Mathematics Olympiad (SOF):** Awarded the Merit Certificate with an International Rank of **958** (2013).
- **Problem Solving Assessment (CBSE):** Achieved Percentile scores of **95.8671** in **Qualitative Reasoning**, **97.4272** in **Quantitative Reasoning** and **98.1414** in **Language Conventions** in Problem Solving Assessment conducted by CBSE (2014).

## TECHNICAL SKILLS

- **Coding Languages & Softwares:** C/C++, Java, Python, Aspen Plus, MATLAB, Autodesk Inventor.
- **Relevant Courses: Java Foundation with Data Structures from Coding Ninjas, Delhi (May, 2018-June,2018):**
  - The course consisted of Introduction to Java, **Object Oriented Programming (OOPS)** and Data Structures including **Linked Lists**(+Stacks and Queues), **Trees** (+Binary Trees and BST) and **Hashmaps** along with **Dynamic Programming**.
  - Honed my coding skills by solving **over 300 problems** on data structures and algorithms as a part of this course.

## PROJECTS

- **Preparation of SCR dual layer monolithic catalysts for NOx reduction (Dr. Divesh Bhatia) (May, 2017 - July, 2017):**
  - Prepared SCR catalysts by **preparing a slurry** of Fe/ZSM-5 and **coating** it on commercially available **monoliths** coated with Cu/ZSM-5.
  - Performed an analysis of the prepared catalysts by characterization techniques including **EDX spectroscopy and SEM**.
  - The washcoated monoliths had a layer of Fe/ZSM-5 ranging in thickness from 94 µm(in centres) to 211 µm(in corners).
  - Laid a foundation for future work in increasing the washcoat efficiency of Fe/ZSM-5 on monolithic catalysts.*
- **Designing a process for Steam Reforming of methane to methanol (Dr. S. Upadhyayula) (Feb, 2018 - May, 2018):**
  - Selected an appropriate Rxn. Pathway, Selected all the required equipments and **Developed a PFD** of the process.
  - Applied mass & energy balances, simplified the heat exchanger network and **ran simulations** of the process on **ASPEN PLUS**.
  - Designed the process on an industrial scale and Performed a cost analysis of the proces to **maximize the profit of the plant**.
- **Investigation of Technologies for the Reduction of NOx from the atmosphere (Dr. Shantanu Roy) (Aug, 2016 - Nov, 2016):**
  - Reviewed the current technologies and methods that are employed in the reduction of NOx from the atmosphere.
  - Proposed possible improvements** and newer technologies that could be used in the future for the reduction of NOx.
- **Transhumanistic notions in "Equilibrium" and their possibility in the impending future (Dr. Divya Dwivedi) (Jan,2018-May,2018):**
  - An in depth philosophical review of the 2002 sci-fi movie "Equilibrium" and the transhumanist notions that it suggests.
- **Political freedom through the eyes of Gandhi (from the book Hind Swaraj) (Dr. Bharati Puri) (Aug, 2017 - Nov, 2017):**
  - A review of Gandhi's Book *Hind Swaraj* and his views on political freedom and their applicability in the contemporary world.
- **Drainage Survey, Swachh Bharat Abhiyaan (Dr. A.K. Gosain) (October,2016):**
  - Worked with a research team on creating a Delhi Drainage Master Plan as a part of the *Swachh Bharat Abhiyaan*
  - Studied the drainage system of Dwarka locality in Delhi to find existing problems and proposed possible solutions in the future.

## IIT DELHI THESIS

- Synthesis and Fabrication of Dye-Sensitized Solar Cells (DSSC) based on TiO<sub>2</sub> (Dr. Anil Verma) (July, 2018 - Present):**
- Designing a process for the Fabrication of TiO<sub>2</sub> based DSSCs as an alternative to present day Silicon based solar cells.
  - Fabricating the TiO<sub>2</sub> based DSSCs on a lab scale to test their efficiencies for different samples in different scenarios.
- Improving the efficiency of the DSSCs to pave the way for more economically feasible solar cells in the future.*

## EXTRA CURRICULAR ACTIVITIES

- **Core Team Member, Wellness Club (September 2016-April 2017):**
  - Managed and conducted various events and seminars to promote the mental and physical wellness of students of IITD.**
  - Lead the team in organizing a seminar titled "Effective Life Management" which was attended by 100+ people.
  - A Publicity event, "The Joy of Complementing" at Rendezvous 2016, where I directly interacted with a large number of people.
  - Conducted a full institute survey on various problems faced by students on campus related to mental+physical wellness.
- **Group Dance, 2nd Position (2016):** Assisted the hostel team in securing second position in inter-hostel Group Dance.
- **Group Dance, Intra-Kara (2015):** Participated in group dance event at Intra-Kara (Hostel Festival of Karakoram hostel).
- **Weightlifting, Inter-Hostel (2016):** Participated in inter-hostel weightlifting and represented the hostel at an institute level.
- **Hobbies and Interests:** I love watching movies as it allows me to view the world through the eyes of the filmmaker.
  - My other hobbies include listening to classic rock music and travelling to new places and exploring their culture and cuisine.



# DIVYA SINGH



## ACADEMIC DETAILS

| Year | Degree / Board                 | Institute                             | GPA / Marks(%) |
|------|--------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Chemical Engineering | Indian Institute of Technology, Delhi | 8.433          |
| 2015 | CBSE                           | Ramakrishna Vidya Mandir, Gwalior     | 94.2%          |
| 2013 | CBSE                           | St. Pauls School, Gwalior             | 10/10          |

## COURSES DONE

Linear Algebra & Diffe. Equa., Intro. To Computer Science, Calculus, Numerical Methods In Chemical, Macro Economics, Indian Economic Problems And Policies, Probability & Stochastic Pro., Data Structures And Algorithms

## INTERNSHIPS

**Johnson Matthey, Kanpur:** *Design of a New Calciner and Heat Integration of Existing Calciner* (May, 2018 - July, 2018)

Received **Letter of Recommendation** for commendable performance from Manager, Technical & QC

- Reduced energy consumption upto 60% by identifying major heat losses and performing heat integration
- Determined optimal operating conditions for the calciner by experimentally studying physio-sorption and chemisorption of catalysts resulting in increased productivity and efficiency
- Designed a calciner by studying the ongoing transport phenomenon with emphasis on energy consumption

## PROJECTS

- *Data Structures and Algorithms*, under **Prof. Saroj Kaushik** (Jan, 2018- April, 2018) :
  - Developed a link analysis algorithm by using a sparse matrix and circular multi-linked list
  - Implemented a market data publisher inspired from high frequency trading by using an AVL tree
  - Built a basic travel application by incorporating Dijkshtra and Prim's algorithm with the concept of minimum spanning tree
- *Biomethanation of Kitchen Waste with Immobilized Anaerobic Bacterial Consortium*, **DRDO** (May, 2017 - June, 2017):
 

Received certificate for significant contribution to the project

  - Experimentally determined cost effective way of methane production from kitchen waste using immobilized bacterial consortium
  - Immobilized bacteria on polystyrene matrix using simple adsorption technique by incubating the matrix in a bioreactor and then observing it under an electron microscope
  - Analyzed BOD, COD, and pH; estimated methane and volatile fatty acids content using gas chromatography
- *Capillary Rise Between Elastic Sheets*, under **Prof. Jyoti Phirani** (March, 2017 - April, 2017) :
  - Modeled elasto-capillary interaction considering surface-tension-driven vertical rise between two hydrophilic sheets
  - Solved boundary value problems in MATLAB to obtain correlation between sheet deflection and length of the sheet
  - Analyzed the research paper "Capillary rise between elastic sheets" published in the Journal of Fluid Mechanics
- *Modeling of Fiber Spinning Flows of Pre-Ceramic Polymer Melts*, under **Prof. Paresh Chokshi** (Nov, 2016 - Jan, 2017)
  - Obtained numerical solutions for a set of differential equations using Runge Kutta (RK4) technique in MATLAB
  - Correlated rheological properties in order to determine proper working conditions for obtaining high quality fibers

## TECHNICAL SKILLS

- C/C++, MATLAB, R, LaTex, AutoCAD, Aspen HYSYS, Google Analytics

## SCHOLASTIC ACHIEVEMENTS

- **Merit Certificates** : Received merit certificates in class 10th and class 12th for stellar academic performance
- **MOOC Courses** : edX - Introduction to data science , Introduction to R for data science ; Coursera - Regression Models ; Google Analytics Academy - Google Analytics for Beginners

## POSITIONS OF RESPONSIBILITY

**Publicity Coordinator, Rendezvous** (November, 2017 - October, 2018): led a 2-tier team with 80+ executives

- Ideated theme of the fest and strategically integrated major sectors to manage all round publicity of fest
- Oversaw pan India publicity of the fest with 1000+ representatives from 300+ colleges
- Established various media house collaborations and collaborations with other colleges for overall publicity of the fest
- Organised all India Rendezvous events with the help of representatives from 30+ colleges in 15+ cities with 3000+ participants
- Supervised creative design and content to increase online outreach over 5 social media platforms

## EXTRA CURRICULAR ACTIVITIES

- **Social Endeavors** : Volunteered in the National Association for Blind and assisted with functional activities
- **Music** : Received training in classical vocal music for 4 consecutive years; obtained Junior Diploma (2006-2009)
- **Sports** : Participated in inter-hostel badminton tournament (2016 and 2017)



# DIVYANK MITTAL



## ACADEMIC DETAILS

| Year | Degree / Board                    | Institute                             | GPA / Marks(%) |
|------|-----------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Chemical Engineering    | Indian Institute of Technology, Delhi | 8.402          |
| 2014 | Board of School Education Haryana | VBN Sr Sec School, Bassai             | 96.6%          |
| 2012 | Board of School Education Haryana | VBN Sr Sec School, Bassai             | 97.6%          |

## SCHOLASTIC ACHIEVEMENTS

- Secured **AIR 71** in **JEE Mains** among **1.2 Million** candidates and **AIR 1211** among 150,000+ candidates in **JEE Advanced**
- Felicitated by the **CM of Haryana** for standing **5th in the state** in 12th class Board Exams out of **200000+ students**

## INTERNSHIPS

- Reliance Industries Ltd.** (May 2018-Jul 2018): *Cost-economic analysis for using HHP steam in coker heaters in place of BFW*
  - Analyzed the system of Coker Heaters using BFW and High Pressure Steam at 60 bar at the heater inlet to enhance feed velocity
  - Consulted with 20+ people to find possible savings & expenses and submitted a report concluding that HHP won't be economical
- School of Chemical Sciences, University of New South Wales, Sydney (UNSW), Australia** (May 2017 - Jul 2017): *Exploration of novel visible light sensitive photo-initiating system for fast photopolymerization process and 3D Printing*
  - Learned a variety of analytical characterization techniques such as SEM, FTIR, XRD, DLS and Raman spectroscopy
  - Performed experiments on the functionalization of carbon nanotubes under different conditions followed by characterization
- School of Materials Science & Engineering, University of New South Wales, Sydney, Australia** (May 2016 - Jul 2016): *Synthesis, characterization and testing of the photocatalytic performance of Fe/Mo doped and co-doped titania thin films*
  - Work may find use in self-cleaning applications, pollution treatment and data produced will be published as research papers
  - Enhanced communication, adaptability and problem-solving skills by living in a cross-cultural and multilingual environment

## PROJECTS

- Zeolite Catalyzed Alkylation Reactions for the Synthesis of Thymol** (Prof. Sreedevi Upadhyayula) (Jul 2018 - Present): Using C-C coupling of m-cresol with iso-propanol to form the pharmaceutically important product thymol over solid acid catalysts
- Simulation of Methanol & Dimethyl Ether Synthesis from CO at High T&P** (Prof. Sreedevi Upadhyayula) (Jan 2018 - Apr 2018): Scrutinized operational properties of potential rxn pathway using Aspen Plus, checked heat integration to reduce avg. cost by **5%**
- Study on Marching Velocity of Liquid Meniscus in a Capillary Channel** (Dr. J. Phirani) (Apr 2017): Designed experimental & analytical model to trace surface energy in micro-channels and developed a 1D mathematical model mapping liquid filling behaviour

## TECHNICAL SKILLS

- HTML, CSS, C, C++, MATLAB, Autocad Inventor, Microsoft Office, Aspen Plus, XRD, Raman Spectroscopy, FTIR, DLS, SEM

## POSITIONS OF RESPONSIBILITY

- General Secretary, NSS IIT Delhi** (Apr 2018 - Present): Leading a **4-tier** team of **42** Members, **30+** Projects & managing **30+ Collaborations** with NGO's and Corporates to generate volunteering opportunities for a **1500+** Volunteer Base
  - Developing a system of timely introspection and effective feedback to ensure continuous improvement and smooth functioning
  - Designing a **first-ever semester-long schedule** to pre-organize the trips and events conducted through all the projects
- Secretary, NSS IIT Delhi** (Apr 2017 - Mar 2018): Awarded for **outstanding contribution** as NSS Secretary at All Boards Night
  - Handled the Finances of NSS IIT Delhi very effectively and made the process fast, more accessible and transparent
  - Kaizen 18:** Co-organized annual social extravaganza in a team of **30** with participation of **40+** social bodies in various events
- Executive, NSS IIT Delhi** (Apr 2016 - Mar 2017): Worked with a team of 29 to generate volunteering opportunity for 1500+ students
  - Actively contributed to many projects aimed at underprivileged teaching, plantation, collection drives and orientation sessions
- Hostel Squash Captain, BSA** (Apr 2017-Mar 2018): Organized **20+ sessions** which saw an increase in PG participation
  - Spearheaded an **inexperienced team** of 5 freshers, resulting in the **selection of one player in the institute team**
- Hostel Hindi Samiti Representative, BRCA** (Apr 2016 - Mar 2017): Represented hostel in a variety of inter-hostel events
  - Worked in a team of **14** to manage marketing, publicity and execution of total **15 events** during both semesters and **Rendezvous**
- Student Mentor, BSW** (Jun 2018 - Present): Weekly meetings, academic monitoring, doubt solving, goal setting and counseling
  - Guiding and assisting 5 freshmen to ensure that they are not put through any stressful interaction and to balance their curriculum

## EXTRA CURRICULAR ACTIVITIES

- Chegg, Online Tutoring** (Oct 2015 - Present): Provided the students at Chegg with solutions to more than **5800 problems**
- Presented with the **Best NSS IIT Delhi Volunteer Award** by IITD Director during the Republic Day Celebrations in 2016
- Winner** of Hindi Word Scrabble inter-hostel competition and the **only hostel resident** to score BRCA points in that semester
- Core Team Member of Aurum, Golden Jubilee Celebration of Hostel**: Managed **20+ events** including interaction with **50+ alumni**
- Humanity Foundation**: Volunteered at NGO which provides food and shelter to the blind students to help them with their studies



# HARNEET SINGH



## ACADEMIC DETAILS

| Year | Degree / Board                            | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech in Chemical Engineering            | Indian Institute of Technology, Delhi | 9.004          |
| 2015 | XII, Central Board of Secondary Education | Saraswati Public School               | 96%            |
| 2013 | X, Central Board of Secondary Education   | Saraswati Public School               | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- **International Publications** (accepted): **Coauthored** - Singh H. et al. 'Blockchain Infrastructure for a Digital India', IJNTR -Singh H. et al. 'Univariate Time Series Analysis of BSE', International Journal of Scientific and Engineering Research (2018)
- **Department Rank 6** on the basis of CGPA in chemical engineering department among **75 students** at the 6th semester end
- **Minor Degree:** Completed 12 credits out of a minimum 20 credits to be eligible for a minor area in **Business Management**
- **Harvard Asia Conference:** Selected for largest student conference in Asia-Pacific, HPAIR in **Kuala Lumpur, Malaysia** (2018)
- **Future Leaders Congress:** 1 among 400 young leaders selected globally to experience **UN** atmosphere in **Thailand** (2018)
- **RUTAG International Conference:** Adjudged **Runners-Up** for a Business Plan on **Diesel Biogas Conversion Kit** (2018)
- **Merit Certificate:** Awarded Merit Certificate for being in Statewise Top 1% in Indian **National Chemistry Olympiad** (2014)

## INTERNSHIPS

- **Wipro Consumer Care and Lighting, Baddi** (May 2018-July 2018): *Successfully completed 4 projects in 2 months*
  - Project 1: Designed an optimum chiller lowering utility costs by 40% with the proposal accepted and being implemented
  - Project 2: Achieved quality enhancement of **Santoor soap** by DMAIC approach; Reduced perfume consumption & cost
  - Project 3: Enhanced CSP production capacity by debottlenecking the process & reducing nozzle plate mesh choking  
*Increased savings by Rs 10 lakhs per annum; Received a Letter of Recommendation for the projects accomplished*
- **Briston Technomach, New Delhi** (June 2017-July 2017) : *Business Analysis & Strategy Development Intern*
  - Proactively identified market opportunities for **FuelArk**, an IoT based fuel monitoring for efficient real-time energy management
  - Researched on **strengthening** distribution network, reinforcing **partnerships with 10** construction & logistics companies
  - Formulated a two-pronged business strategy for FuelArk by **competitive benchmarking** thereby increasing **20% market share**  
*Drafted the formal white paper of the company under the guidance of Briston Technomach CEO & Founder Mr Avnish Kumar*

## POSITIONS OF RESPONSIBILITY

- **Coordinator, Rendezvous, IIT Delhi** (April 2018 -Present) :
  - Led a **3-tier** team of **20** for redesigning layout and distribution system to **minimize waiting time** for prize collection
  - Implemented the **cashless** distribution system ensuring transparency and instant payment to the winners of **100** events
  - Conceptualized first-ever **centralized display** system for RDV events' realtime updates enhancing user engagement
- **Coordinator, Entrepreneurship Development Cell (eDC), IIT Delhi** (Jan 2018 - Aug 2018) :
  - Led a **2 tier** team to raise **sponsorship** for the annual Business Conclave; Incorporated **4P** framework based pitching
  - Negotiated deals with MakelIntern, IITDAA, Mypoolin etc; Implemented '**Pick & Choose**' model to maximize company's ROI
  - Conceptualised comprehensive **pre-fest strategy** & online quizzes; Envisaged & organized **National Case Competition**
- **Student Affairs Council (SAC), IIT Delhi** (April 2017 - April 2018): *Member of apex student body of IIT Delhi*
  - Technical Coordinator:** Formed and led a **2-tier** technical team for revamping the website, introducing official survey portal
  - Hostel Representative:** Unanimously elected by **500** residents; Represented SAC to a **Tsinghua University, China** delegation
  - Significantly contributed towards agendas: Wi-fi Installation, **Alumni Mentorship**, e-Rickshaws and Technical Events

## EXTRA CURRICULAR ACTIVITIES

- **Entrepreneurship and Business Plans:** *Podium finish in 8+ B-plans & case competitions at national & institute level*
  - Winner, **1st Position**, Blueprints, National B-Plan at DTU; **Runners-Up**, Chem-e-Biz Case Study at **Tryst, IITD** (2018)
  - Winner, **1st Position**, Finesco, B-Plan, CVS, DU; Campus **Runners-Up**, Techspark by **Hindustan Unilever Ltd** (2017)
  - Winner, **1st Position**, Unravel, the Case Competition, NSIT; **Finalist**, Indian Case Challenge, Kshitij, IIT Kharagpur (2018)
  - Winner, **1st Position**, B-Ception, flagship National level Business Plan Competition at Parivartan by **DMS IIT Delhi** (2018)
- **International Conferences and MUN:** Selected for Africa's **largest** technological conference, **YesBud Summit** (2018)
  - Selected through a rigorous process to represent India in **Asia Youth International MUN** in Bangkok, Thailand (2018)
  - Selected among 4942 applicants in **Korea-International Culture & Education** program **Seoul, South Korea** (2018)
- **Literary Activities & Quizzing:** *Published my creations at poetrysoup.com; Served as Hostel Literary Representative*
  - Bagged **1st position** and **3rd position** for hostel in Potpourri & Three Muses, the institute level literary events (2016-17)
  - Winner, **1st**, Murphy's Law, National level Quiz, Tryst'18 IITD; **3rd position**, District Science Quiz, Haryana State Council (2012)
- **Social Initiatives & Pro Bono Consulting:** *Regular volunteer in National Service Scheme, IIT Delhi*
  - Student Mentor, BSW IITD:** Guided six first year students to ensure a smooth transition into IIT Delhi (Apr 17- Apr 18)
  - Project Udaan, CBSE :** Conducted performance analysis & provided academic mentorship to 5 students for JEE (2016)



# KSHITIJ GOEL

## ACADEMIC DETAILS

| Year | Degree / Board                 | Institute                             | GPA / Marks(%) |
|------|--------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Chemical Engineering | Indian Institute of Technology, Delhi | 8.259          |
| 2015 | CBSE                           | D.P.S. DWARKA                         | 95.8%          |
| 2013 | CBSE                           | D.P.S. DWARKA                         | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- **Harvard Asia Conference:** Selected for largest student conference in Asia-Pacific, HPAIR in **Kuala Lumpur, Malaysia** (2018)
- **RuTAG International Conference:** Runners-Up, Proposed business plan on **Diesel-Biogas Conversion Kit** in B-Plan Contest (2018)
- **Minor Degree:** Completed 12 credits out of minimum credits to be eligible for a minor area in **Business Management**
- **Publications:** *Institutional & Policy Aspects of Punjab Agriculture*, Journal of Agricultural & Food Information(**Accepted**)(2017)
- **Certificate of Merit and Gold Medal:** Awarded for 7 consecutive years for academic excellence, D.P.S. Dwarka (2014)

## INTERNSHIPS

- **Zinnov Management Consulting (Digital Transformation Advisory),** (May,2018- July,2018): *Market Research Intern Project from major Client i.e. Microsoft aimed at expansion of its Cloud Services- Azure across different verticals*  
-Applied Primary and Secondary research techniques to identify **ISVs** in industry-specific value chain for **275 accounts**  
-**Deep-dive profiling** of ISVs on parameters like Cloud/On-Prem deployment, Cloud Vendor, Revenue, acquisition chain  
-Detailed analysis of 15000 ISVs on lines of above parameters with a focus on **Private Equity portfolio** across industries  
*Received Letter of Recommendation from senior consultant for impeccable detail and applicability in the project*
- **Briston Technomach, New Delhi,** (June, 2017- July, 2017): *Business Analyst*  
-Proactively identified market opportunities for **FuelArk**, **IoT** based fuel monitoring for efficient **real-time** energy management  
-Researched in strengthening the **distribution network**; Reinforced partnerships with **10** Construction & Logistics companies  
-Formulated a **two-pronged** business strategy for FuelArk by competitive benchmarking thereby increasing **20%** market share  
*Drafted the formal white paper of the company under the guidance of Briston CEO & Founder Mr. Avnish Kumar*

## POSITIONS OF RESPONSIBILITY

- **Entrepreneurship Development Cell (eDC), IIT Delhi** (Dec, 2017- Present) : *Umbrella body, Student Incubation Cell Co-Overall Coordinator* (Sept, 2018 - Present): *Organized India's Biggest IT workshop, in the field of AI, ML, IoT*  
- Spearheading a **three-tier** team of **70+** coordinators & executives across **8 divisions** organizing **pan-India** level events  
- Planned & formulated **social entrepreneurship** vertical; Launched **Youth for Kerala** campaign initiating collection drive  
**Core Team Member** (May, 2018 - Present): *Promoted after 3 stages based on contribution to entrepreneurial ecosystem*  
- Procured **significant sponsorship** for Samvaadam- social talk show encouraging India's youth to pursue innovative ideas  
- Revamped structure of **Campus Ambassador Program**, eDC by introducing various changes & optimising the budget  
**Coordinator, Publicity** (Dec, 2017- May, 2018): *Reaching out to every enthusiastic entrepreneur & students globally*  
- Devised a pan-India media plan for a **360-degree** brand image of FireSide Chat with **Uber CEO** Dara Khosrowshahi  
- Coordinated **TEDx Delhi** 2018 (Conclave on Media, big data and entrepreneurship) including **30 World-class speakers**
- **Events Coordinator, Chemical Engineering Society (ChES)** (April, 2017- April, 2018) :  
-Organised national level **Chem-E-Case** and **Chem-E-Quiz** for first time along with Tryst IIT Delhi, tech-fest of IIT Delhi  
-Conceptualized building **Dept. Alumni Database**, collecting data, pitching over **1000** alumni via LinkedIn & AlmaConnect

## EXTRA CURRICULAR ACTIVITIES

- **Case Study & B-Plans:** *Podium finish in Global & National Case Study & B-Plan Competitions*  
-**Winner**, National Case Study Competition, ECell NSIT; **Winner**, Murphy's Law, National Level Quiz, **Tryst IIT Delhi** 2018  
-**Winner**, National B- Plan Competition, E-Cell of DTU; **Finalist**, Indian Case Challenge, Case Study Competition, **IIT KGP** 2018  
-**Winner**, National B-Plan Competition, Finesco, CVS; **Runners-Up**, Inter-IIT Technical Case by **HUL**, Campus Round 2017
- **Dance:** *Choreographed & performed in Institute Dance Production (IIT's premier Dance event)*  
- **Winner**, National Choreography Competition for **2 consecutive years** in RDV'16 & RDV'17, IIT Delhi's cultural fest  
- **Second Runners up**, Inter-Hostel Group Dance'17 & Duo Plus'17- Institute level dance events (**Choreographer**) 2017
- **Miscellaneous:** *Awarded Distinctive Performance, Overall Activities by Chemical Engineering Society 2017-2018*  
-**Hostel Captain, Basketball:** Fostered new talent ; Led a team of 12 in Inter-Hostel General Championship (Basketball) 2018  
-**Music:** **Second Runners-Up**, Jukebox (Inter Hostel Rock Band Competition)- Coached and led the hostel band team 2016  
-**Hostel Music Representative:** Contributed to team of 14 executing 7 music club events in 4 days of Rendezvous 2016
- **Social Endeavours:** *Actively participated in social activities contributing to growth & development of the society*  
-**Avanti Outreach Program**-Spread awareness for the **Pan IIT** undertaking for education opportunities to everyone  
-**Anmol Sahara NGO, Delhi:** Worked on their project in **AIIMS** for supporting cardiac patients requiring financial aid 2018  
-**Student Mentor, BSW IIT Delhi:** Awarded **Best Mentor** showing exemplary skills to mentor first-year students 2018



# LALIT SWAMI

## ACADEMIC DETAILS

| Year | Degree / Board                 | Institute                             | GPA / Marks(%) |
|------|--------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Chemical Engineering | Indian Institute of Technology, Delhi | 7.419          |
| 2014 | CBSE                           | RSV Hr. Sec. School, Bikaner          | 89.0%          |
| 2012 | RBSE                           | SDP Memo. Sr. Sec. School, Bikaner    | 76.0%          |

## SCHOLASTIC ACHIEVEMENTS

- National Stock Exchange Certification:** Awarded for scoring 92% in 'Financial Market' module offered by NCFM (2018)
- Minor Degree:** Pursuing Minor in **Technologies for Sustainable Rural Development** in CRDT; completed 12/20 credits(2018)
- Coursera Certification:** Awarded for meritoriously completion of course '**Machine Learning**' offered by Stanford University (2018)
- International Publication:** Authored paper on '*Reaction Dynamics of Steam Reforming of Glycerol*', published in IJAMR (2018)
- National Science Olympiad:** Secured **301 International Rank** in 15th SOF conducted across **14** countries in Asia (2012)

## INTERNSHIPS

- Oil & Natural Gas Corp. (ONGC), Dehradun** (May,2018-July,2018): *Worked on Foam Based Completion Fluid for Subhydrostatic Wells*
  - Identified various combinations of foaming agents and foam stabilizers for solid free clean **low gravity** Completion fluid
  - Designed foam based subduing fluid by analyzing **thermal stability** at **80°C** & rheology parameters of different compositions
  - Recommended thermally stable foam for reducing **non-productive time** (NPT) & saving economy of well in **crores***Awarded Letter of Recommendation by Major Janeshwar Prasad, Deputy General Manager for commendable work done*
- Sunrise Containers Ltd., Haridwar** (May,2017-June,2017): *Worked on Economic Analysis of Moulding Processes*
  - Deduced cost reduction through **process improvement** for moulding units by optimizing area & packaging of products
  - Estimated Annual Expenses of PET plant to get an overview of **economical cost** required to operate & maintain PET plant
  - Examined attributes of PET plant, moulding processes, product manufacturing, **quality check** of products, packaging
- SMILE, Pravah, MP** (May,2016-June,2016): **UNESCO MGIEP** program on **sustainable development** to foster global citizenship
  - Coordinated '*A Right Step*' event of **700+** people to solve education problems of Pandurna with educational stakeholders
  - Designed **Innovation Lab & CLC module** for the better quality of education to children's through Project Based Learning

## POSITIONS OF RESPONSIBILITY

- Director, Mime Theater Society, Dramatics Club** (Aug, 2017 -April, 2018): *Conducted Auditions for Institute Mime plays*
  - Director of first ever Mime Theater Society of Club; *Trained & Led team of 15+* by organizing Mime workshop for **20** days
  - Finalist in **2 self-scripted** Mime plays performed at "Vismiriti" in RDV'17; Managed all logistics and infrastructure
  - Formulated **innovative concepts** for performance in Vismiriti Competition involving **40+** colleges, *appreciated by crowd*
- Coordinator, Entrepreneurship Development Cell (eDC)** (Jan, 2018 - May, 2018): *Handled Social Media and Events*
  - Spearheaded **2-tier** team for development & promotion of content for online publicity & quizzes to reach **4000** delegates
  - Planned **strategic layout** for social media platform resulted in a **multifold hike** in outreach of publicity for BECON'18 events
  - Organized *Impiego*, a Startup Internship & Job Fair which resulted in **50+** offers for students in startups during **2** day-fair
- Executive, Corporate & Industrial Relations, Entrepreneurship Development Cell (eDC)** (Sept, 2016 - May, 2017):
  - Responded to build Corporate & Industrial Relation for club and **pitched** several panel members for *E-Summit* events
  - Managed events for club *Impiego, Fresher Orientation, Tie Run, E-Summit* events like *VC Lounge, Panel Discussion*

## EXTRA CURRICULAR ACTIVITIES

- Dramatics:** Directed, Acted and Edited Music in **20+** consecutive performances at professional, national & institute level  
**National Level:** Represented Ankahi Theatre Society IIT Delhi in all dramatics events for the past 3 years (2015-2018)
  - Overall Winner**, 2nd edition of **Inter IIT General Championship** Kanpur; Performed in Dramatics club events (2017)
  - 2nd Runner-Up**, Natika Vatika Stage Play Competition, Rendezvous'17 'Mix Veg. in Hot Garlic Sauce' (Acted, 2017)**Institution Level:** Podium finish in 7 plays; Awarded **Significant Contribution'18** in Cultural Activities by ChES
  - Winner, Dramatics Trophy** for securing podium finish in all competitive events organized by Dramatics Club (2016-17)
  - Winner**, Inter Hostel Stage Play Competition for the play 'Deluxe Hair Cutting Saloon' (Acted, Directed & Edited Music 2017)
  - Winner**, Inter Hostel Monoact Competition'18; **1st Runner-Up**, Inter Hostel Mime Play Competition (Acted, Directed 2017)
  - Winner**, Intra Hostel Scrabble Competition'18; **2nd Runner-Up**, Inter Hostel Stage Play Competition (Acted, Music 2018)
  - 1st Runner-Up**, Inter Hostel Street Competition'16; **2nd Runner-Up** Inter Hostel Stage Play Competition (Acted, Edited Music 2016)
  - 1st Runner-Up, Dramatics Trophy**, performed in all competitive events representing Kumaon House in Dramatics Club (2017-18)
 Awarded **Outstanding Contribution'18** and **Significant Contribution'17** for Cultural Excellence in hostel activities
- Activity Head (Publicity & Content Development), RDV'17** (May,2017-Oct,2017): Supervised **creative design** of posters
  - Designed **Online Contest** for publicity to outreach for the biggest cultural fest in North India along with content development
- Social Endeavour:** Volunteered for NSS in Munirka Teaching Project & Apna Parivar Children's Home (2015-2016)
  - Samvidhan Live-Jagrik Project, Community Youth Collective:** Awarded a Certificate by the **Constitution Club of India** (2016)



# MILIND DHANRAJ ZODE



## ACADEMIC DETAILS

| Year | Degree / Board                       | Institute                             | GPA / Marks(%) |
|------|--------------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Chemical Engineering       | Indian Institute of Technology, Delhi | 7.448          |
| 2014 | Board of Intermediate Education, A.P | Narayana Junior College, Hyderabad    | 98.4%          |
| 2012 | CBSE                                 | Sunflag School, Bhandara              | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- Silver medal, iGEM Giant Jamboree competition 2016, held at Hynes Convention Centre MIT, Boston
- Bronze medal, iGEM Giant Jamboree competition 2017, held at Hynes Convention Centre, MIT, Boston
- German (Level 1), Short Term Course under Continuing Education Programme (Jan 2017- April 2017)

## PROJECTS

- **Rekha (Prof. P.V.M Rao and Prof. Ambuj Sagar)** (Oct 2017 - Dec 2017)
  - Conducted **Fieldwork** to identify and validate the need of hand-disabled students involved in Engineering drawing
  - Developed a **prototype** to address the afore-mentioned need (Course: **Inclusive Innovation Theory and Practice**)
- **Eco Diva (Prof. P.V.M Rao and Prof. Ambuj Sagar)**, Course Project (Aug 2017 - Sept 2017)
  - Analyzed a product of Global Eco-Power to make it more efficient, formulated **PSS models** and marketing channels
  - **Presented** the afore-mentioned work to the **Founder and Chairman** of Bisquare Systems Pvt. Ltd.
- **Localize, Visualize and Eliminate Solid Tumours (Prof. Shalini Gupta)**, Course Project (March-May, 2018)
  - Designed an **8 step Treatment Strategy** using Gene Editing technology, Bacterial cancer therapy and current diagnostic technologies used in medical science to localize, visualize, and eliminate solid tumours
- **Basic Logic Assessment Signalling Tools (BLAST, iGEM IIT Delhi 2017)**
  - Contributed in developing synthetic modules for signal processing in biological systems
- **Highly Optogenetically Tunable Frequency Modulator (HOT-FM, iGEM IIT Delhi 2016)**
  - Contributed in developing a Genetic circuit that can switch between an Oscillator and a Toggle Switch
  - Focused on the optogenetic modification to tune oscillator frequency in response to light, results were produced in E-coli

## INTERNSHIPS

- **GoodEd Technologies Private Ltd.: (May-July, 2016): Repass Program**
  - Worked for **E-Course Development**, formulated a creative methodology to design and manage the content
  - Developed textual, visual and video contents at the higher secondary education level
  - Categorised Video-Based Contents that are available for each subtopic on an artificial learning based platform
  - Conducted data analysis and developed strategy for making a scalable learning solution for students

## EXTRA CURRICULAR ACTIVITIES

- **Martial Arts (Karate, IGKA):**
  - Awarded **Black-Belt** Shodan, International Gosoku-Ryu Karate-do Association (2017)
  - Won **9 Gold, 2 Silver, 2 Bronze** medals in various Karate competitions at State, Division, District level (2007-17)
- **Dance:** Inter-Hostel Competitions: Group Dance (**Third Position**, 2017), Duo Dance (Participation, 2016)
- **Dramatics:** Inter-Hostel Competitions: Mime (**Second Position**, 2016), Street Play (Participation, 2015)
- **Fine Arts:** BHM Night, Stall Competition (Represented Kumaon House, **Second position**, 2015)
- **Student Mentor, BSW (2017-18):**
  - Guided Six first-year students to ensure a smooth transition into IIT Delhi
  - Assisted the coordinators in exhibits, activities and sessions related to academics, counselling during Orientation 2017
- **Other Interests: Yoga, Chess, Trekking, Cycling, Skating, Swimming**

## POSITIONS OF RESPONSIBILITY

- **Marketing Head, Human Practices and Lab Team Member, iGEM IIT Delhi 2017:**
  - **Raised funds** for the project by pitching companies, designed marketing proposals
  - Conducted **workshops and sessions** in schools and colleges on synthetic biology, a part of Human Practices
  - Assisted the content and **wiki development** team
- **Garden Secretary, Kumaon House - Board of Hostel Management (April 2017 - April 2018)**
  - Managed the **budget allocation** for maintenance of house garden

## TECHNICAL SKILLS

- **Softwares and Language:** ASPEN, Snapgene, MATLAB, Autodesk Inventor, MS Excel, MS Powerpoint, C



# NEELANSHU



## ACADEMIC DETAILS

| Year | Degree / Board                 | Institute                             | GPA / Marks(%) |
|------|--------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Chemical Engineering | Indian Institute of Technology, Delhi | 6.932          |
| 2015 | CBSE                           | K.V. No. 2 A.F.S. Jodhpur             | 97 %           |
| 2013 | CBSE                           | K.V. No. 2 A.F.S. Jodhpur             | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

### Awards and Scholarships:

- Received prestigious **Prime Minister's Scholarship** in the year 2016-17.
- Received a Letter of Appreciation from former **HRD Minister Mrs. Smriti Zubin Irani** for excelling in AISSC-15.
- Received a Letter of Appreciation from **British Council** for integration of **International Learning** in 2015.
- Received Cash Award of Rs. 5000/- p.a. for 4 years from **KVS Foundation** for excellent performance in AISSC-15.
- Received **Rajya Puraskar** for excellent services towards **Bharat Scouts and Guides, Government of India.** ('15)

### Olympiads:

- Secured **AIR-80** in **NSTSE-15** conducted by Unified Council, competing amongst 2 lakh+ national students.
- Secured an **International rank of 362** in International Olympiad of Science (iOS) conducted by Silverzone foundation.

### Qualifying Exams:

- Secured **AIR-182** in the **JEE Mains-15** with **99.55 percentile** while competing with 18 lakh+ students.
- Achieved **97% in AISSC-2015** examination conducted by CBSE, securing **2nd merit** in Ajmer region in PCM stream.

## INTERNSHIPS

### Indian Road Safety Campaign, Allahabad | Project Ambivan

(Jun, '17 - July, '17)

- Analyzed the availability of **Ambulance** for quick response; and **City Roads** for preventive measures against **road accidents**.
- Inspected the availability and functioning of **Ambulance providers** and hospitals in multiple regions of Allahabad city.
  - Shortlisted various Black Spots of the city prone to **road accidents** to the organization for first **preventive** measures.
  - Spread awareness among the citizens about methods of accessing Ambulance services and demonstrated them.
- Received **Certificate of Appreciation** for displaying exemplary work, ethics and ingenuity.

## PROJECTS

### Wastewater Treatment and Management | Dr. Paresh P. Chokshi

(Aug, '17 - Nov, '17)

- Analyzed in depth the current **Wastewater management systems** and technology and examined their efficiency.
- Perused the contemporary **techniques and technology** involved in management of **waste waters** from various sources.
  - Examined its composition, flow rate and other variables and **defined mechanisms** to collect and treat it efficiently.
  - Visited **Asia's largest** Sewage treatment plant in Okhla, New Delhi operated under **Delhi Jal Board** for **Case study**.

### Development of Surrogate Models for Waste Management | Dr. Munawar A. Shaik

(July, '18 - Present)

- Devising surrogate models for **Waste management** using model of the outcome simulated in **SciLAB.** / **B.Tech. Project**
- Literature review and data collection for simulation is presently going on.

## TECHNICAL SKILLS

### Programming:

C, C++, Python, R.

### Softwares:

Autodesk Inventor, Borland C++ Builder, Powermill, SciLAB, ASPEN Plus, ASPEN HYSYS, MS Excel

## EXTRA CURRICULAR ACTIVITIES

### Dramatics:

- Street Play: **Rendezvous (Annual Cultural fest of IIT Delhi): 1st Position** (2016)
- Performed in the Street Play '**Uncounted 3.5 Crores**' raising the issue of miserable lives of homeless orphans in India.
- Participated in a **team of 20** for composition and structuring of the Street Play.
- Inter Hostel - Street Play: **1st position** (2015)
- Performed in the Street play '**Union of India vs Pet**' sensitizing general public on scarcity of food for the poor.
- Secured **1st position** among 13 participating hostels of IIT Delhi.

### Other Interests:

- Playing Basketball, listening to music, reading, learning about financial and trading skills.

## POSITIONS OF RESPONSIBILITY

### Events Executive, Chemical Engineering Society:

(Aug, '16 - May, '17)

- Assisted in development of year plan of the society by actively coordinating with **15+ team members**.
- Helped in organization of several **events** like Farewell, Freshers' meet and performed various ground level works.



# PAIDI KRISHNA PRADEEP



## ACADEMIC DETAILS

| Year | Degree / Board                                  | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech in Chemical Engineering                  | Indian Institute of Technology, Delhi | 7.905          |
| 2015 | Board of Intermediate Education, Andhra Pradesh | Sri Chaitanya Junior College, Vizag   | 97.7%          |
| 2013 | Board of Secondary Education, Andhra Pradesh    | Sri Prakash Vidyaniketan, Vizag       | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- Secured **AIR-44** in the 8th SOF International Mathematics Olympiad (**IMO**) 2015
- NTSE Scholar** - Awarded scholarship by the **NCERT** under the National Talent Search Scheme 2013
- State **Runners-Up** in the **Annual Science Quiz** organized by K.V. Rao Scientific Society 2013
- Secured **AIR-53** in the **Unified Cyber Olympiad** conducted by Unified Council 2012

## INTERNSHIPS

- NoBroker Technologies and Solutions, Bangalore: Operations Consulting** (May - July 2018)  
*NoBroker is a disruptive real-estate platform that makes it possible to buy/sell/rent a house without paying any brokerage.*
  - Responsible for **Automating the Mail Inbox of the Process Improvement and Adherence (PIA) Department** at NoBroker by **Implementing a FreshDesk Ticketing System** for all the Internal Escalation Mails received.
  - Conducted **Observations and Analysis** of the PIA Personnel and their Work Procedures to determine their **Time and Motion Requirements**
  - Compiled the **Documentation for Sales Conversion Process** at the Company for training the New Hires as well as a Reference for the present.
  - Automated the Complete **Incentive Cycle** for all the PIA Executives to improve their Efficiency as well as decrease their Non-Productive Hours.

## PROJECTS

### Course Projects

- Modeling and Simulation of Ethanol Synthesis from Glucose (Prof Sreedevi Upadhyayula)** (January- May 2018)
- Reviewed **Potential Reaction Pathways** for the Reaction and did a **Cost-Benefit Analysis** based on Raw Materials used.
- Study of Flow in Capillary Tubes of Varying Radius (Prof Jyoti Phirani)** (January- May 2017)
- Analysed the **flow in Horizontal Capillary Tubes** and came up with a similar method for **tubes with varying radius in the axial direction**.

### Summer Project

- ReDesign and Testing of Foams for Helmets (Prof Puneet Mahajan)** (May-July 2017)
- Associated with an IRSC Project focused on designing an **economical and lightweight helmet** suitable for the Indian Conditions.*
- Carried out **Drop Tests** using the Drop Impact Testing Machine on various Foam Materials to test their relative Deformation with respect to **EPS** (Expanded PolyStyrene) which is the **Foam used in today's Helmets**.
  - Worked with **Kevlar and PolyCarbonate Materials** and assisted in the **Design of the Fixtures** to execute the Side Impact Test on the foams.

## POSITIONS OF RESPONSIBILITY

- Editorial Coordinator, Entrepreneurship Development Cell (eDC) (August 2017 - April 2018):**
  - Prepared and Published Articles and Posts to inculcate the **Entrepreneurial Environment** and **Promotion of cell**.
  - Managed a small Team of executives to launch **Founder Diaries**, an **Inspiring Entrepreneurial Journey of Alumni of IITD**.
  - **Developed** and Organized a **Business Quiz** for the Freshers as part of **eDC's Orientation Session**.
  - Functioned as the **Point of Contact** for the One Day Internship Program at Silversparro as part of eDC's first-ever **Business Conclave**.
- Core Team Member, Intellify IITD (May 2017 - Present) :**
  - **Managed the Operations** for the International Science and Creativity Olympiad (**ISCO'17**) along with a Core Team of five.
  - Anchored the **Education Conclave-18** at IITD which saw **Manish Sisodia, the Deputy CM of Delhi** as the Chief Guest.
- Mentor, Student Mentorship Programme, IIT Delhi (April 2017 - April 2018) :**
  - **Guided 6 First-Year Students** to ensure a smooth transition into IIT Delhi, making certain the comfort of the incoming Students
  - Assisted in SMP's Academic Mentorship Initiative by acting as the **Supervisor of the Academic Mentors** allotted for Nilgiri Hostel.

## TECHNICAL SKILLS

- Proficient in Google Sheets (Pivot Tables) and MS-Office; Capable of **Coding** in C and Python

## EXTRA CURRICULAR ACTIVITIES

- **Content Writing / Creative Writing**
  - Envisaged and Developed the story, "*The Other Side of Silence*" as part of the Hostel Magazine making Competition organized by the Board for Student Publications which eventually won the **3rd Place** among 22 Teams.
- **Quizzing**
  - **Regional Winner** of the **Hindu Young World Quiz** and Qualified for the Nationals at Coimbatore in 2009.
  - Branch Winner of the **2012 Bharat Ko Jano Quiz** Organized by Bharat Vikas Parishad and Qualified for the Nationals.



# PULKIT SRIVASTAVA



## ACADEMIC DETAILS

| Year | Degree / Board                 | Institute                             | GPA / Marks(%) |
|------|--------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Chemical Engineering | Indian Institute of Technology, Delhi | 8.532          |
| 2015 | C.B.S.E.                       | Delhi Public School, R.K.Puram        | 97%            |
| 2013 | C.B.S.E.                       | Delhi Public School, Jalandhar        | 10             |

## SCHOLASTIC ACHIEVEMENTS

- NTSE scholar; **High distinction** in Maths by UNSW, Australia; Secured state **rank 1** in **VVM** (Vidhyarthi Vigyan Manthan)
- Gold medal for academic excellence (2014) and badge for **academic consistency** (2013) at **DPS R.K.Puram**
- A grade (10/10) in Econometric Methods, Numerical Methods & A- (9/10) in Evolutionary Optimization, Data Structures

## INTERNSHIPS

- Reliance Industries, Reliance Corporate Park, Mumbai (May, 2018 - July, 2018) : *Research and Development*
  - Development and optimization of technologies for primary and secondary harvesting of marine algae to increase the **efficiency and economy** of Reliance Industries' current upstream process of conversion of **algae to biofuels**
  - Received Letter of Recommendation for excellence and dedication in work at Reliance Industries*
- FITSO, Gurugram (Dec, 2017 - Jan, 2018) : *Project Assistant*
  - Member of **core team of 6** of the **startup**, to organize the first ever IIT Delhi Alumni Reunion Run for brand activation
  - Managed the **marketing** (below the line and brand activation), **budgeting** and **pre-event** and **during event tasks**
- IL&FS, Noida (June, 2016 - July, 2016) : *Finance and Industry division*
  - **Analysed feasibility** and financial aspects of a small scale handloom industry
  - Studied financial aspects involved in a company and prepared a **financial statement**

## PROJECTS

- iGEM Club - Square Wave Oscillator Genetic System (May, 2017 - Nov, 2017) under Prof. Shaikh Z. Ahammad :
  - Partnered in team: of 4 for representing at **All India iGEM Meet** at IISER Pune, of 8 for **wet lab** to obtain results
  - Involved in the **data handling** for the team wiki page. Wrote a **Javascript** code for implementation in the **wiki design**
  - Team designed the first of its kind square-wave oscillation producing bacteria which won **Bronze medal** at iGEM competition at the Giant Jamboree, a premier annual **synthetic biology** competition held in Boston, USA*
- Social Network Analysis (Course Project) (Mar, 2018 - May, 2018) under Prof. Saurabh B. Paul :
  - Determined the factors effecting comments on a Facebook post and their influence using linear regression
  - Validated hypothesis testing using t-statistics & F-statistics on data obtained from Univ. of California's repository
- Tal Danino Oscillations Model (Course Project) (Oct, 2016 - Nov, 2016) under Prof. Paresh Chokshi :
  - Simulated model involving delay-differential equations and spatio-temporal waves on **MATLAB** for upto 200 cells
  - Analysed and reported the result obtained (were among the only 2 groups (out of about 40) graded 10/10 on the project)*
- Imperialist Colony Optimization (Course Project)(Mar, 2018 - May, 2018) ~under Prof. Manoj Ramteke:
  - Modeled the optimization algorithm on **MATLAB** for multi-nodal, multi-variable single objective function
- Travel Route Optimization (Course Project) (Apr, 2018) : under Prof. Saroj Kaushik
  - Coded in C++ to find the optimum route involving distance and traffic light time using **Dijkstra's algorithm**
- Game Development (Apr, 2013 - Mar, 2014) under Mr. Mukesh Nagpal : Replicated game app 'Chain Reaction' on C++

## TECHNICAL SKILLS

- Languages: C++, Javascript, HTML, Java, R
- Softwares: MATLAB, AutoCAD Inventor, Adobe Photoshop, SnapGene, MS-Office, Aspen

## EXTRA CURRICULAR ACTIVITIES

- iGEM Club : Represented IIT-D at All India iGEM Meet; member of wet lab, wiki development and modeling team
- Dance : Participated in inter-hostel **Group Dance** (2015,2016), **Duo+** (2016); **Selected for Rendezvous'16** dance team
- Basketball : Key member of the team in the **inter-hostel** tournaments throughout 2016, 2017 and 2018
- Other interests: Coding, Reading novels, Trekking, Swimming, Watching anime, Playing and developing video games

## POSITIONS OF RESPONSIBILITY

- Hostel Representative, Dance (April, 2016 - May, 2017) :
  - Organized dance events during **Rendezvous'16** and the pre-event preparations in a team
  - Organized the **inter-hostel** dance events and Institute Dance Production in a team of 13 and **prepared hostel team**
- Hostel Committee, Maintenance (2016 - 2017)
- Hostel Head Boy, D.P.S., R.K.Puram (April, 2014 - March, 2015)



# SAKSHAM GUPTA



## ACADEMIC DETAILS

| Year | Degree / Board                 | Institute                             | GPA / Marks(%) |
|------|--------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Chemical Engineering | Indian Institute of Technology, Delhi | 8.981          |
| 2015 | CBSE                           | Birla Vidya Niketan, New Delhi        | 97%            |
| 2013 | CBSE                           | Birla Vidya Niketan, New Delhi        | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- **iGEM Silver Award, MIT, USA:** Felicitated at **world's largest** biotechnology competition featuring 272 teams (2016)
- **IITD Semester Merit Award:** Conferred scholarship **3 times consecutively** for ranking among **top 7%** in the department (2017-18)
- **Undergraduate Teaching Assistant:** Selected for semester-long UG teaching assistantship to manage 120 students (2018)
- **Minor Degree:** Completed 12 credits out of minimum 20 credits & secured a GPA of **10/10** in Management (2018)
- **KVPY Fellowship:** Awarded by Govt. of India (2013); **INSPIRE Scholarship:** Conferred for being in **Top 1%** in CBSE(2013)
- **NTSE Scholarship:** Awarded by Govt. of India (2011); **Shell Jr. National Sc. Scholarship:** **1 of 3 National Winners** (2012)
- **Olympiads:** Ranked in **Top 25 in 11 National Olympiads**, **AIR 2** in NCO, **International Rank 4 & 8** in IMO & NSO (2007-14)

## INTERNSHIPS

- **EXL Analytics, American Express Team** (May'18 - July'18): *Customer Loyalty & Rewards Program*
  - Value Analysis of 70+ partners: Analysed impact of campaigns in enhancing customer engagement via 2 **novel business logics**
    - Developed a VBA-based automated model to achieve **20% time & 25% effort reduction** in client reporting mechanisms
    - Customer-Web Interactions: Identified effective **e-communication & promotion channels** by formulating SAS workflow
  - Awarded **Pre-Placement Offer** for impeccable performance during internship; All projects implemented by company
- **POSTECH University, South Korea** (May'17 - July'17): *Computational Fluid Dynamics Lab*
  - Formulated a **computational model** to determine electrocapillarity effect in nanochannels using *COMSOL Multiphysics*
  - Improved theoretical **accuracy by 25%** by generating **500+ results**; Suggested relevant electrolytes based on 4 factors
  - Received **Letter of Recommendation & a 300,000 Korean Won honourarium** as 'encouragement prize for energetic research'

## EXTRA CURRICULAR ACTIVITIES

- **Business Case & Innovation Challenges:** *Global Winner at 2 worldwide reputed student conferences*
  - **International Delegate, Harvard Asia Conference:** Represented India among **60 nations** in Kuala Lumpur, Malaysia (2018)
  - **Founding Member, IITD Negotiation Table:** Organised **4 editions** of market simulation conference in 3 colleges (2015-18)
  - **Global Winner, Maybank Impact Challenge, Malaysia;** **Runners-Up**, Sashakt Case Study Competition, IITD (2018)
  - **Winner, CaseJam:** Case Study Challenge, BITS Pilani; **Runners-Up**, International RuTAG Conference's B-Plan Event(2018)
  - **Winner, Big Data Challenge, Shaastra, IIT Madras;** **Runners-Up**, HUL's 'TechSpark', Campus Round (2017)
  - **Winner, Optimo Case Challenge, Shaastra, IIT Madras;** **National Finalist**, Marketing Villa, Techkriti, IIT Kanpur (2018)
  - **Winner, NITI Policy-Making Competition, IIT Delhi;** **National Finalist**, Best Manager, Techkriti, IIT Kanpur (2018)
- **Debating & Literary Activities:** *Awarded School 'Best All-rounder'; Podium finishes in 10+ institute & school level events*
  - **Runners-Up**, National Level Parliamentary Debate Tournament, Antaragni, IIT Kanpur (2017)
  - **Winner, Creative Writing Competition, Syaahi, literary fest, DTU;** **Quizmaster**, 5+ in-house lit & general quizzes (2017-18)
  - **Runner-Up, Best Speaker, Intra-IIT Freshers Parliamentary Debate;** **Winner, English Extempore, Birla Vidya Niketan (2013,16)**
  - **Second Runners-Up, for 2 consecutive years** in BSP's flagship Inter-Hostel Magazine-Making Competition (2017-18)
- **Social Initiatives:** *BSW Mentor; Volunteer, CRY & Shiksha Sankalp; Certified Moderator for Max Healthcare*
  - **Ministry of Social Justice & Empowerment:** Created online directory of best services across the country for The National Trust

## POSITIONS OF RESPONSIBILITY

- **Overall Coordinator, Literati** (Jun'18 - Present): *Leading a 3-tier team of 20 coordinators & 70 executives*
  - Spearheaded organization of **10+ events** and administered the publicity team at one of **India's biggest** college literary fests
  - Executed **National-level** Literature Quiz; Conceptualized key initiatives to enhance budget transparency & team efficiency
  - Expanded **outreach** through leading news channels & boosted social media interest by **360%**; Drove **20+ orientation** sessions
- **Chief Editor, Board for Student Publications** (May'17 - May'18): *Led a team of 18+ journalists across 13 hostels*
  - Conceptualized **3 new series**, BSP's flagship newsletter with **1500+ reader base & first-ever** Comic-Making Competition
  - Pioneered *Pan-IIT Project*, a **first-of-its-kind** collaboration between 4 IITs; Accomplished comparisons across **20+ dimensions**
  - Awarded '**Significant Contribution to BSP**' & '**Significant Contribution (Content)**' in 2 consecutive years for exemplary work
- **Overall Coordinator, Technology & Innovation Club** (Apr'18 - Present): *Spearheading a 3-tier team of 25 individuals*
  - Implementing **8+ novel** initiatives like Brainstorming Labs, TIC Weekend, TIC Newsletter & Student-Engagement Portals
- **Coordinator, Guest Lectures & Int'l Collaboration, Tryst** (Sep'17 - Feb'18): *Led a 3-tier team of 55+ students*
  - Spearheaded **3 sponsor** events; Revamped team functioning to strategize **250+ pitches** & optimise resource allocation
  - Awarded '**Significant Contribution to Tryst**' from among **125+ team members** for excellence in fest organization



# SHALINI GUPTA



## ACADEMIC DETAILS

| Year | Degree / Board                 | Institute                             | GPA / Marks(%) |
|------|--------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Chemical Engineering | Indian Institute of Technology, Delhi | 7.385          |
| 2015 | CBSE                           | Modern Vidya Niketan, Aravali Hills   | 94%            |
| 2013 | CBSE                           | Modern Vidya Niketan, Aravali Hills   | 10             |

## SCHOLASTIC ACHIEVEMENTS

- **Summer Undergraduate Research Award:** Conferred by IRD Unit, IIT Delhi for excellence in research (2017)
- **Publication:** 'Evaluation of Macroeconomic Forecasting Models based on Neural Network', IJSR; I.F.: 7.2 (2018)
- **KVPY Fellowship:** Awarded for academic merit after a 2-tier selection procedure by Government of India (2015)
- **CBSE Certificate of Merit:** Awarded for outstanding performance and scoring a perfect 10 in all subjects (2013)
- **IISC Bangalore:** Received certification for diploma course in Supply Chain & Marketing Management (2018)

## INTERNSHIPS

- **Reliance Industries Limited, Jamnagar:** World's Largest Refinery (May,2018- July, 2018)
  - Reviewed reliability of existing model of the Air Separation Unit for **10+ cases** with **1% error** using Aspen Plus tools
  - Increased oxygen **production by 7%** by posing improvisations in existing model for usage in gasification of syngas
  - Achieved effective **cost deduction by 11%** by reducing losses & established feasibility of proposed mechanism using distillation
  - Extended Pre- Placement Offer in lieu of exemplary work done; all proposals being implemented by the company
- **Zillious Solutions Pvt. Ltd., New Delhi:** Market Research Trainee (December, 2017)
  - Restructured pricing model with potential revenue **growth of 12%** by analysing market drivers & competitive benchmarking
  - Adapted & piloted the product to open **new customer segment**: direct corporates by coordinating with the senior leadership team
  - Analysed the global market scenario to outline **international expansion** strategies based on market potential for next 5 years

Received **Letter of Recommendation** from the Director for impeccable work & analyzing abilities

## EXTRA CURRICULAR ACTIVITIES

- **Volleyball :** Won **5 medals** in **8+** volleyball tournaments at national and institute level for 3 consecutive years
  - Winner, **Gold Medal**, 51st Inter IIT Sports Meet, first gold medal for Volleyball (W) (2016)
  - Winner, **Gold Medal**, Inter IIT Sportech, across participants from 6 competing IITs (2016)
  - Winner, **Silver Medal**, Sportech, IIT Delhi's annual sports festival, among 8 teams (2017)
  - Winner, **2 Silver Medals**, Udghosh, IIT Kanpur & ANDC inter college tournaments (2015-16)

Awarded '**best team of the year**' to Volleyball women among 19 sports teams of IITD (2016)
- **Dance:** Directed & performed in **20+ dance sequences** across various dance forms for 3 consecutive years
  - Winner, **First Position, Rendezvous**, National Level Choreography Competition (2016)
  - Winner, **First Position**, Inter Hostel Group Dance Competition: among 13 hostels (2016)
  - **Director, IDP** : Choreographed performances & managed logistics for **50+ dancers** (2017)
  - **Dance Representative**: Achieved **50% increase** in participation through workshops (2016-17)
- **Social Endeavours:** Instrumental roles in different social initiatives pertaining to the development of education sector
  - **Shiksha Sankalp**: Collaborated with NGO in creating execution road map by assessing the newly launched education policy
  - **Aarohan Teaching Project**: Mentored underprivileged JEE Aspirants throughout preparation enhancing overall growth
  - **Student Mentor**: Selected to guide freshers to ensure smooth transition & assisted coordinators in exhibits during orientation

## POSITIONS OF RESPONSIBILITY

- **Coordinator, Board for Student Welfare:** (Apr,2018 - Present)
 

Led a team of 140+ mentors and 26 representatives selected by a 2- tier process and trained them to guide 850+ freshers

  - Facilitated end-to-end implementation plan of **Academic Mentorship Program** by onboarding mentors for probationers
  - Administered **Student Alumni Mentorship Program** providing platform to establish connection between students & alumni
  - Crafted **Career Counselling Program** aimed to create awareness for various fields via online information repositories
- **Sports Secretary, Kailash Hostel, BSA:** (Apr,2017- Apr,2018)
  - Pioneered **first ever** Institute level Girl's football team; liaised with **Baichung Bhutia Football School** for training facility
  - Achieved **25% YoY reduction in cost** by optimizing fund allocation; executed full scale documentation of inventory
  - Established **first ever indoor sports room** & online sports forum addressing an audience of **600+** hostel residents
- **Events Coordinator, Speranza & Sportech:** (Dec,2017- Sept,2018)
  - **Speranza 2018:** Spearheaded a team of **50+ members** to successfully conduct 20+ events over a span of 7 days
  - Accomplished **20% increase** in participants and audience, managed effective cost cutting to **reduce expenses by 20%**
  - **Sportech 2018:** Conducted **Sportech Weekender**, a weekly pre-fest event to familiarize students with unconventional sports
  - Organized self defense sessions, zumba training and arm wrestling league engaging **50+ students** to participate



# SHASHANK GUPTA



## ACADEMIC DETAILS

| Year | Degree / Board                 | Institute                             | GPA / Marks(%) |
|------|--------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Chemical Engineering | Indian Institute of Technology, Delhi | 6.56           |
| 2015 | CBSE                           | Evergreen Public School               | 94.4%          |
| 2013 | CBSE                           | Evergreen Public School               | 9.60/10        |

## SCHOLASTIC ACHIEVEMENTS

- **Chartered Financial Analyst (CFA) Program Level 1:** Cleared with greater than 70 Percent Score in 7/10 sections [2018]
- **Minor Degree:** Earned 21/20 credits; Completed Minor Area Specialization in **Business Management**, DMS, IIT Delhi [2018]
- **Gold Medalist, WorldQuant LLC:** Rank of **549** out of 16898 participants worldwide in Global Alpha Building Competition [2018]
- **KVPY Scholar:** Awarded the prestigious fellowship by Department of Science and Technology, Government of India [2014]
- **WorldQuant Research Consultant:** - Developed quantitative strategies for efficiently trading securities in the US markets
  - Developed algorithmic trading signals (**Alphas**) to create investment portfolios with high profit margins and back testing these models by running historical simulation on a web-based tool called **WebSim** developed by WorldQuant [2018]
- **Problem Solving Assessment, CBSE :** Scored **99.71** Percentile in Quantitative Reasoning Section [2014]

## INTERNSHIPS

- **Reliance Industries Ltd, Jamnagar,** Gujarat, Central Technical Services Unit [May,2018 - July, 2018]
    - Performed **Multiple Variable Regression** in order to come up with a Correlation between Total Gas Yield and Input Field
    - Investigated the effect of other parameters and process conditions on Gas Yield on the basis of the analyzed past data
    - Analyzed the past data and developed a MS Excel based **prediction tool** in order to predict the Gas Yield with significant accuracy
- Received a Pre-Placement Offer (PPO) for excellent contribution to the project*

## PROJECTS

- **Price Deflator Time Series Analysis, (Prof. Amlendu Kr. Dubey, DMS, IIT Delhi)** [Jan, 2017 - April, 2017]
  - Forecasted the **GNP of US**; Validated the model by calculating Akaike Information Criterion values for the ARIMA process
  - Developed **Correlogram** for the first difference obtaining autocorrelation and partial autocorrelation by using **Eviews** software
- **Financial analysis of distress in Uganda, (Prof. Amlendu Kr. Dubey, DMS, IIT Delhi)** [July,2017- December,2017]
  - Studied the causes and implications for regulatory policy during Uganda Crisis
  - **Modelling** of the crisis situation using preexisting data present in literature to find underlying factor which caused meltdown
  - Comparision of the **monetary policy** undertook by the country before and during events in light of other fellow African countries
  - Measuring the Soundness of the decision by using **OLS regression** analysis of factors like GDP and financial policy variables
- **Machine Learning in Diagnosis, (Prof. Varun Ramanohan)** [June,2018 - Present]
  - Building a systematic model to predict outcomes in patients with subarachnoid hemorrhage using **ML techniques**
  - Building a **text parser** to fetch key details from an unorganised patient data and to perform supervised learning analysis on it
  - Performing deep image analysis on the patients' layered CT scans to identify the extent of blood clotting using **CNNs**
- **Analytical application of Numerical Methods on Radioactivity (Prof. Paresh P Chokshi)** [Aug, 2016 - Nov, 2016]
  - Assessed numerically the disintegration phenomena for radioactive elements, in case of series and parallel reactions
  - Formulated a mathematical model implementing **Range-Kutta (RK-4)** method for scaling up radioactive phenomena
- **Course Projects:**
  - **Nudging in Healthcare Sector (Prof. Mahim Sagar, Marketing Management)** [Jan, 2018 - May, 2018]
  - **Study of Multiple Regression (Prof. Amlendu Kr. Dubey, Statistics for Management)** [July, 2017 - Nov, 2017]
  - **Equity Valuation Models (Prof. Shveta Singh, Managerial Accounting & Financial Management)** [July, 2017 - Nov, 2017]

## TECHNICAL SKILLS

- C, C++, R Studio, FL Studio, AutoCAD, MATLAB, Aspen Plus, Autodesk Inventor
- **Relevant Courses:** Econometrics, Managerial Acc. and Financial Management, Operations Management, Statistics for Management, Macroeconomic Env. of Business, Organisation and People Management, Marketing Management

## EXTRA CURRICULAR ACTIVITIES

- **Dance Club**
  - **Winners, First Position**, Choreography National Level Competition, **Rendezvous**, Theme: Unsung Heroes [2016]
  - **Winners, Second Position**, Choreography National Level Competition, **Mood Indigo**, Theme: Unsung Heroes [2016]
  - Participated in Inter Hostel Dance Competition & IDP '16'17'18; Choreographed & performed sequences of different styles
- **Winner:** MNC Faction, Negotiation Table, IIT Delhi for **two years '16,'18**; Awarded **Best Speaker** among all the participants [2018]
- **Event Coordinator, Ortus 6.0:** Managed and successfully organised 10+ events for the annual fest of Nilgiri Hostel
- **Socials:** Organised Inter College Social Meet with Lady Shri Ram College, DU, with turnout of 200+ from both the colleges



# SHUBHAM



## ACADEMIC DETAILS

| Year | Degree / Board                 | Institute                             | GPA / Marks(%) |
|------|--------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Chemical Engineering | Indian Institute of Technology, Delhi | 7.198          |
| 2015 | BIE, AP                        | FIITJEE Junior College                | 97.3%          |
| 2013 | CBSE                           | Delhi Public School                   | 9.8/10         |

## SCHOLASTIC ACHIEVEMENTS

- **Patent:** Technology, 'Catalytic Methane Converter for Natural Gas Vehicles': Application Number - 201811028058 (2018)
- **Selected among top 8 teams at the National Level for Renew Power Innovation Challenge** (February, 2018)
  - Conceptualized and developed an economical prototype for catalytic oxidation of lean methane gas to carbon dioxide
  - Awarded **2nd prize** among the 8 finalist teams along with a **prize of 50,000 INR** for demonstrating the working prototype
- **International Linkage Degree Program, Hiroshima University, Japan** (December, 2017)
  - Selected for the International Linkage Degree Program held at Hiroshima University, Japan for 11 days period
  - Focus on technology and cultural knowledge of Japan in the field of Robotics, Chemical and Environmental Engineering
- **Research and Innovation Award - IIT Delhi Alumni Association Multi Gaming Rotatable Table** (April, 2016)
  - Received a **special mention and consolation prize** under the Undergraduate category **among the 40 teams selected**
  - Conceptualized, designed and manufactured a multi-gaming rotatable table having a facility of 3 games on a single table
- Completed 12 out of 20 credits required for completing **Inter-department Specialization in Robotics**

## INTERNSHIPS

- **Sun Pharmaceutical Industries Ltd., Gurugram Technology Development, R&D Division** (May - Jul, 2018)
  - Conceptualized and designed a Process Control model for an API based Anti-Solvent Crystallization*
  - **Developed the system model** and optimized the internal parameters for the anti-solvent crystallization process
  - Designed an **algorithm of model predictive control** with 2 variable inputs to control the final crystal size

## PROJECTS

- **Process Control Design of Metabolic System (Prof. Anurag Rathore)** (Dec, 2017 - Ongoing)
  - Developed the system model and optimized the internal parameters of the system based on experimental data
  - Further in designing a Control model for maximizing the output of the biochemical reaction by controlling multiple parameters
- **Safety Device for Train Track Workers (Prof. M. Balakrishnan) Course Project** (Jan - Apr, 2018)
  - Developed a **prototype** for warning the workers working on train tracks of approaching trains, **without interfering with tracks**
- **Soil Nutrient content Measurement Device (SRISTI NGO, Ahmedabad)** (May - Jun, 2017)
  - Developed a **prototype** that can be used by the farmers to know the **mineral content level of the soil**
  - Product involves a **pack of chemical reagents and a mobile app** to measure the **color intensity** of the solution
  - The device successfully **measures the phosphorus content level** of the soil by measuring the intensity of the solution

## TECHNICAL SKILLS

- **Programming:** C, C++, Java(basics), Arduino IDE, MATLAB
- **Industry Software Skills:** Autodesk Inventor, AutoCAD 2007, Diptrace(PCB Designing), Cell Net Analyzer

## EXTRA CURRICULAR ACTIVITIES

- **ABU ROBOCON 2017 Competition Robotics Club IITD** (Aug, 2016 – Mar, 2017)
  - Secured overall **rank of 10 among the 113 teams** that participated from different Indian colleges
  - **Core team member of electrical division** of the team that represented IIT Delhi in the National ROBOCON competition
  - Designed a **Frisbee Throwing Robot** to throw Frisbee comprising various types of motors, microcontrollers, and encoders
  - Fabricated all the **electrical circuits and PCBs** used in the robot using **Diptrace software** comprising various sensors
  - Successfully demonstrated the robot in the **Open House 2017 and Republic Day 2017** to various guests and professors
- **Line Following Differential Drive (Prof. Kolin Paul) Robotics Club IITD** (May - Jun, 2016)
  - Designed a **sturdy PID algorithm** for a differential drive line following robot that uses OPT sensors to detect line
  - Achieved **calibration-less line detection** and manufactured the line following robot independent of the light nature

## POSITIONS OF RESPONSIBILITY

- **Coordinator (Fresher), Robotics Club IITD** (Apr, 2017 - Mar, 2018)
  - Designed, planned and executed about a year-long schedule of workshops and events for the robotics club
  - Spearheaded the team and designed a rigorous selection process for the recruitment of over 50 freshers
  - Mentored the freshers for various robotics competition held around India in various colleges during winter



# SIMRAN MALIK

## ACADEMIC DETAILS

| Year | Degree / Board                 | Institute                             | GPA / Marks(%) |
|------|--------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Chemical Engineering | Indian Institute of Technology, Delhi | 8.111          |
| 2015 | CBSE                           | Amity International School            | 97.0           |
| 2013 | CBSE                           | Amity International School            | 10.0           |

## SCHOLASTIC ACHIEVEMENTS

- Corporate Finance:** Completed online course by *University of Pennsylvania* with focus on time value of money (2018)
- Research Study:** '*All Blacks : A Case Study*', received **Letter of Recommendation** by Prof. Purnima Singh, IITD (2018)
- International Publication:** '*Cognitive Dissonance and Mitigation Strategies*', IJAMR, in marketing management (2018)
- CBSE Merit Certificate:** Awarded for outstanding performance with perfect **10 grade** in all five subjects, AISSE (2013)
- National Mathematics Competition:** **1st position** in annual national-level mathematics competition, *Mathamity* (2012)
- National Camp:** 1 in 20 selected **nationally** for excellent performance in A2 level German exam, *Fit in Deutsch* (2012)

## INTERNSHIPS

- Schlumberger Asia Services Limited, Gurgaon/Kakinada** (May, 2018 - July, 2018) : *Integrated Drilling Services*
  - Planned recovery of **1000+ barrels** of condensate, worth **USD 80,000** by modelling novel process for *Condensate Stabilisation*
  - Reduced **7000+** man hours per year by implementing a remedial work plan, after conducting a *Lean - 5S audit* at KKD base
  - Facilitated efficient planning of future wells by analysing **10 offset wells**; rendered data from disparate sources searchable
  - Received **Letter of Recommendation** for exemplary work ethic with proposal being fast tracked to implementation
- Deakin University, Melbourne** (May, 2017 - July, 2017) : *Characterisation of Ionic Liquid Electrolytes using Oxygen 17 NMR*
  - Studied the structure and molecular dynamics of ionic liquids over **6 parameters**, analysed the results using **BPP fitting**
  - Obtained **positive results** for application of ionic liquids in high-density energy storage devices using rare O17 isotope
  - Received **Letter of Recommendation** for contribution to O17 NMR & achieving commendable results in limited time frame

## POSITIONS OF RESPONSIBILITY

- Publicity Coordinator, Rendezvous 2018** (November, 2017 - Present) : *Leading a 2-tier team of 70+ executives*
  - Managing the publicity of **150+ events** by strategically integrating different verticals through cross-departmental functions
  - Established outreach to **two lakh** followers through **5+ social media channels**; supervising all creative content & design
  - Executed specialised campaign to increase outreach on Instagram; partnered with media houses for all round coverage
  - Coordinating with campus ambassadors from **200+ colleges** in India for onground, offground & online publicity of fest
- Secretary, Literary Club** (April, 2017 - March, 2018) : *Elected to lead an 18 member team to conduct 30+ events*
  - Increased participation by **250%** by launching **5 new** event formats; pioneered foundation of reading club & Toastmasters
  - Organised first-ever IITD Poetry Slam in collaboration with IITDOnAir & produced YouTube videos garnering **4000+ views**
  - Managed the marketing, logistics & publicity to organise **8+ events** in Rendezvous 2017 attracting **1200+ participants**
  - Winners, Speaking Arts & Runners-up, Quizzing and Literary Arts at the 2nd Inter IIT Cultural Meet held at IIT Kanpur**
- Overall Coordinator, Delhi Poetry Festival** (November, 2017 - February, 2018) : *Led a 3-tier team of 60 executives*
  - Envisioned & executed India's largest standalone poetry & music festival, with participation from **200+ colleges** nationally
  - Devised pan-India comprehensive media plan with **10+ TV and print media** companies like Aaj Tak, Sahara, Dainik Bhaskar
  - Coordinated logistical, infrastructural & hospitality requirements for 4 parallel venues witnessing **300+ poetry performances**
  - Organised **60+ events** during the festival; hosted distinguished artists like Vishal Bhardwaj, Rabbi Shergill, Jasbir Jassi

## EXTRA CURRICULAR ACTIVITIES

- Music** : Performed at **10+ national and institute level events** as vocalist and classical violinist across multiple genres
- National** : Performed on national stages like *Dances of India Festival* & *inaugural ceremony of Rendezvous 2016*
  - First Division**, Junior Diploma Exam in Hindustani Classical Violin for **3 consecutive years** at Kalashram (2009-12)
  - Lead Vocalist, Allegro**, **national-level** inter-college A capella competition organised during Rendezvous (2016)
  - Lead Vocalist, Rendezvous**, inaugural performance at Open Air Theatre, witnessed by **6000+ audience** (2016)
- Institute** : **1 of 13** selected to be a member of *Cadence, the Western Music Society of IIT Delhi*
  - Winner, Mehfil**, Indian music competition spanning across traditional Indian music genres like *sufi* & *folk* (2018)
  - Runner-Up, Mehfil**, flagship inter-gharana event in traditional Indian music, as vocalist in *Marwa Gharana* (2016)
  - Runner-Up & Lead Vocalist, Ragnarok**, **first ever** inter-year band competition conducted by Music Club (2018)
  - Director & Lead Vocalist, Jukebox**, composed hostel band performance; managed stage-tech & logistics (2015-16)
- Case Studies & Business Challenges** : Represented IIT Delhi in **6+ national level** case study competitions across India
  - National Winner, Business Quiz**, national-level event organised annually by Apogee, BITS Pilani (2018)
  - National Runner-Up, In Case You Can**, **multi-tier** case study competition conducted by NSIT Delhi (2018)
  - National 2nd Runner-Up, Avante Garde**, business plan competition organised at IIM Indore (2017)



# SMARTH VEER SIDANA



## ACADEMIC DETAILS

| Year | Degree / Board                 | Institute                             | GPA / Marks(%) |
|------|--------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Chemical Engineering | Indian Institute of Technology, Delhi | 8.34           |
| 2014 | AISSCE, CBSE                   | D.A.V Public School, Chandigarh       | 91%            |
| 2012 | AISSE, CBSE                    | D.A.V Public School, Chandigarh       | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- **Massachusetts Institute of Technology, US:** Only undergraduate selected to represent IITD in Giant Jamboree (2016) - Conferred **Silver** Medal amongst 300 teams with **3000 participants** globally; received grant of **46,500 INR** from IITD
- **Patent:** Technology, 'Catalytic Methane Convertor for Natural Gas Vehicles': Application Number - 201811028058 (2018)
- **Harvard Scholarship:** One of the 5 undergraduate students selected as global **scholar** from 40 countries (2018) - Awarded **highest honour** of extraordinary accomplishment & scholarship of **900 USD** to attend conference at **Harvard** University
- **Conferences (UK, Spain & Italy):** Sponsored invitee by RSC, IChemE as a **speaker** for 3 Int'l conferences (2017, 18)
- **Extraordinary Contribution to Department:** Only B.Tech student from the ChemE; awarded by **Head of Department** (2018)
- **INMO & INChO:** Selected in National Olympiads conducted by Homi Bhabha Research Centre; **twice** in INMO (2013, 14)

## INTERNSHIPS

- **Imperial College Business School, UK** (May, 2018 - July, 2018) : *Education Consulting & Marketing Division*
  - Led portfolio review team to **re-engineer** ranked program & **launch new** conversion program generating **£5.6M** annually
  - Reduced marketing **spend** by **15%** via recommending **consolidation** of **master's programs** into 2 separate suites
  - Optimized brand outreach **budget** by **72%** via devising a multi-modal strategy to facilitate channel wise geo-targeted campaign
  - Collaborated with **GMAC** to identify decline in key markets, resulted in strategic pivots and **risk management** at the highest level

*All proposals approved & implemented; received recommendation letter from Director, Corporate Marketing & Communications*
- **University of British Columbia, Canada** (Nov, 2017 - Dec, 2017) : *Chemical Engineering Department*
  - Investigated operational performance of a UV-LED **water treatment** reactor in photo-degradation of chemical contaminants
  - Performed result analysis to verify applicability of chemical actinometry for the process; Received **recommendation** letter
- **Imperial College London, UK** (May, 2017 - July, 2017) : *Chemical Engineering Department*
  - Designed a **micro-reactor** for oxidation of lean methane improving **efficiency** by **37%**; received **grant** from **QP & Shell**
  - Recommendation letter & Nomination to Royal Society of Chemistry by President, Institution of Chemical Engineers*

## POSITIONS OF RESPONSIBILITY

- **Core Team Member, Rendezvous'18** (Dec, 2017 - Present) : *Leading a 4 tier team of 50 coordinators and 500 volunteers*
  - Marketing & Publicity: Secured **title sponsorship** for 2 consecutive years (**20% CAGR**); reduced budget spending by **17% YoY**
  - Increased publicity **outreach** by **40% YoY** through **digital marketing** & extensive **media plan** (**12% YoY** growth in valuation)
  - Events & Administration: Developed **central UID** registration for seamless prize management for 100+ BRCA events
  - Remodelled event structure for 4 concerts, 30+ international acts across 7 stages; potential increase in crowd flow by 30%
- **India Head - Marketing & Communications, Harvard HPAIR** (May, 2018 - July, 2018) :
  - Recruited & led a team of **500 executives**, closed partnership with **4 national student bodies** to increase foothold of HPAIR
  - Increased outreach by **217% WoW** basis by designing & executing **expansion strategy** of HPAIR with 3 verticals
  - Ideated National Coordinator program of HPAIR to be launched worldwide; Appointed as project lead in India*
- **Marketing Coordinator, Tryst'18** (Sept, 2017 - Dec, 2017) : *Led a 3-tier team to execute North's largest technical fest*
  - Secured **50%** of monetary budget from a single sponsor by revamping workshop partnership (**17% YoY** growth in enrollment)
  - Led corporate campaigns covered by ET, Autocar Asia; recommendation from Marketing Director Asia Pacific, Axalta Systems*

## EXTRA CURRICULAR ACTIVITIES

- **Business Case and Innovation challenges:** Attended **15 global events** in USA, UK and India
  - International: One of the **top 5** globally, selected for the finals of Deloitte Challenge; **presented** at **Harvard Business School**
  - National: **Podium** finishes in **10** case challenges with **cash accolades** of **2.35 lac INR**
  - **Winner**, Ola Mobility Case Challenge by E-Cell, IIT Bombay | **Runners-Up**, Innovation Case Challenge by ReNew Power
  - **Winner**, Xylomancy Invictus SME Case Challenge by DTU | **Runners-Up**, Smart-City Case Challenge by Enactus-NSIT
  - **Winner**, Battlefield Techkriti Case Study by IIT Kanpur | **Runners-Up**, Case Masters Innovation Challenge by DTU
  - **Runners-Up**, Tryst Odysey Case Challenge by IIT Delhi | **Second Runners-Up**, NSBC v2.0 Case Challenge by NSIT
- **Founder:** [ashafoundations.co](http://ashafoundations.co), a pilot social enterprise started in Feb 2016, providing quality academics to underprivileged
  - Recruited & mobilised 400 students for **development of slum schools**; impacted lives of over **500 slum** children
  - Built a network of **70** dedicated **mentors** for personalised mentoring of **150 students** for engineering entrance exams
  - Collaborated with the Govt. of Punjab; received recognition from Honorable Chief Minister, Punjab & National media houses*
  - Awarded Distinctive Performance in Overall Activities for 2 consecutive years by Prof. Khanna, Dean of Student Affairs*



# SUBHANKAR DASH



## ACADEMIC DETAILS

| Year | Degree / Board                 | Institute                             | GPA / Marks(%) |
|------|--------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Chemical Engineering | Indian Institute of Technology, Delhi | 9.142          |
| 2015 | CBSE                           | M.V.A., Burhanpur                     | 94%            |
| 2013 | CBSE                           | K.V., S.P.M., Hoshangabad             | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- **Foreign Exchange Programme:** Selected to represent IITD at *École Polytechnique de Montréal* from over 160 applicants ('17)
- **Department Rank 3:** Based on current CGPA, in batch comprised of 121 students. Consistently ranked in **top 3** ('16/'17)
- **Summer Undergraduate Research Award (SURA):** One of 5 projects in the department to be awarded by IRD, IIT Delhi ('17)
- **IIT Delhi Semester Merit Award:** Conferred for being ranked in **Top 7%** of batch of 2019 for **2 consecutive semesters** ('16)
- **National Top 1%:** Ranked among India's **Top 1%** in the National Standard Examination in Physics conducted by IAPT ('15)

## INTERNSHIPS

- **ITC Limited, KITES Internship :** Productivity Improvement in Bottle Filling Line *(May, '18 - July, '18)*  
*Investigated key OEE losses to identify factors affecting bottling efficiency & achieve two-fold increase in line throughput*
  - Employed **six-sigma** tools and concepts & designed various experiments in order to diagnose the root causes of aeration
  - Achieved OEE improvement from **39.17%** to **72.32%** by suggesting various technical and systemic design solutions
  - Remodelled entire nozzle design to boost per capita output by **47.68%** and attain **25.21%** reduction in conversion cost
- **Dept. of Revenue, Govt. of Rajasthan :** Interface Design & Strategic Planning *(May, '16 - June, '16)*  
*Visited numerous departments of the Government and analyzed planning and functioning of various schemes*
  - Catechized deliverance methods of G2C Services, suggesting improvements in online methods of service transmission
  - Designed an interface for deliverance of G2C services under **Bhamashah Yojana**, targeting financial inclusion of **50M people**

## PROJECTS

- **Indoor Air Purifier using Monoliths (SURA), Prof. Shantanu Roy :** *(May, '17 - Feb, '18)*
  - Modeled monolithic channels as filters using MATLAB, designed & conducted experiments to test performance vs existing filters
  - Developed **low-cost**, low pressure, and **highly efficient** air purifiers as opposed to existing costly models for poor households
- **Automated Interface for G2C Schemes Deliverance E-Gov, Prof. Jyoti Kumar :** *(Aug, '16 - May, '17)*
  - Analyzed real-world feasibility of **implementation of kiosk-like interface** for the deliverance of G2C services among the public
  - Conducted experiments with people from nearby *bastis*, collected data, and integrated feedback for model development
  - Developed model for kiosk implementation factoring in existing norms and various **design for usability techniques**

## POSITIONS OF RESPONSIBILITY

- **Coordinator, Open House, IIT Delhi :** *(Jan, '18 - April, '18)*  
*Spearheaded a 12-member team & strategized the execution plans to handle the biggest intraday event at IIT Delhi*
  - Directed inauguration of event showcasing over **750 projects** across 13 depts, 11 centers, 3 schools & 2 CoEs; hosted **500 schools**
  - Assisted a panel of over **80 IITD Alumni** in the identification & short-listing of the 5 most-promising projects for felicitation
- **Events Coordinator, Axalta Campaign, Axalta Coating Systems Ltd. :** *(Mar, '18 - April, '18)*  
*Program designed to unleash future scientists' and R&D stars' potential, with keynote by Axalta's Chairman and CEO*
  - Led a team of over **30** for simultaneous management and publicity of event, increasing crowd interaction and participation
  - Spearheaded Campus Ambassador Program consisting of over **500 students** pan-India; managed offline & online publicity handles
- **Executive, National Service Scheme (NSS), IIT Delhi :** *(April, '16 - Mar, '17)*
  - Collaborated with **SBI** and **IIT** admin & led promotion of digital payment methods such as **UPI**; registered **over 1300 users**
  - Conducted workshops on Teaching along with **BITS Pilani** and **Teach for India NGO**, aimed at sensitization of **over 20 colleges**
- **Executive, Entrepreneur Development Cell (eDC), IIT Delhi :** *(Jan, '17 - April, '17)*
  - Served as a liaison between eDC, corporate professionals, students & Entrepreneurs & created multiple networking opportunities

## EXTRA CURRICULAR ACTIVITIES

- **Student Mentorship Programme:** Mentored **5** first year **students** to ensure smooth transition into IIT Delhi ('18)
  - Engaged with mentees under guidance of SMP team and professional counselors enhancing interaction and self-awareness
- **UDAAN [initiative by MHRD]:** Aimed at aiding female enrollment into engineering colleges addressing low gender ratio ('16)
  - Selected as a mentor from **over 70 applicants** for intensive face to face contact programme for 60 students spanning 12 days
  - Conducted topic-wise sessions for the entire batch, enhancing conceptual clarity and honing problem-solving skills
- **Committee for Promotion & Monitoring of Interaction (COPMIN):** Ensuring appropriate redressal of ragging related issues ('18-'19)
- **Sports:** Bagged **Bronze** in **consecutive years** in Inter-Hostel Basketball Competition; played at point-guard position ('16-'18)
- **Ride 4 Accessibility Campaign (Min. of Social Justice, GoI):** Volunteered and **awarded** for enthusiastic participation ('16)



# SUNAJE BHUSHAN



## ACADEMIC DETAILS

| Year | Degree / Board                 | Institute                             | GPA / Marks(%) |
|------|--------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Chemical Engineering | Indian Institute of Technology, Delhi | 8.853          |
| 2015 | CBSE                           | Abhinav Public School                 | 95.6%          |
| 2013 | CBSE                           | Delhi Public School                   | 10.0           |

## SCHOLASTIC ACHIEVEMENTS

- **Student Exchange:** Amongst **Top 2** students in batch to represent IITD at **University of British Columbia, Canada** (2017)
  - Received '**Go Global International Learning Programs Award**'; Secured exceptional SGPA of **3.6/4.0**
- **IIT Delhi Semester Merit Award:** Received for being in the **Top 7%** of the institute based on academic excellence (2017)
- **Minor Degree, Computer Science:** Secured GPA of **9.83** and completed 12/20 credits towards minor area requirement
- **IITD Alumni Association Research & Innovation Award:** Only UG team for scholarship and award conferred by Director (2016)
- **Times of India Merit Scholarship:** Awarded for excellence in academics under Army education scholarship scheme (2016)
- **National Top 0.1% in Mathematics:** Secured 100/100 in XII Boards; Conferred with certificate of merit by CBSE (2015)

## INTERNSHIPS

- **Haldor Topsøe Headquarters, Denmark:** *Digitalisation of Material Selection* (May, 2018-July, 2018)
   
Received **Letter of Recommendation** for outstanding contribution; Potential savings of **INR 3 Cr** being realised per year
  - Strategised low-cost digitalised selection of materials; Digitised and **automated process** by mapping current methods & rules
  - Formulated **3 major components**: Environmental Evaluator, MatProgram: Algorithms for output; MatEditor- Properties Database
  - Successfully mapped flow charts for 17 of 22 environments, **5 configurations approved** & used directly by plant engineers
- **National Tsing Hua University, Taiwan:** *Viscosity Measurement using Fiber Bend Loss Sensor* (May, 2017-July, 2017)
   
Awarded **Global Engineer Leadership Scholarship** for outstanding work and value addition to research
  - Graphically programmed an FFT LabVIEW dashboard to a Fourier transform spectrometer system for spectral analysis
  - Designed Laser Couplers using essential tools- **3D printing** using MakerBot, CO2 Laser Cutting, Moulding Process
- **Waste Warriors NGO, Corbett:** *Digitalise and Optimise Waste Management Process* (May, 2016-July, 2016)
  - Designed a Corbett's **first-ever** waste management system and app, automatic timetable generator for **48 villages**
  - Envisaged points of optimisation to reduce man hours by **30%** and **minimise errors** upto **80%** with the proposed solution

## POSITIONS OF RESPONSIBILITY

- **Founder, PickMe:** Personalised Community Rickshaw Service, **Sauder School of Business, Canada** (Jan,2016-Jan,2018)
   
*Nominated as Smart Innovation Project of IIT Delhi with Seed Funding of 1.5 Lakhs; Presented in Open House '16, '17*
  - Launched the **first-ever** optimised Rickshaw Service for IITD with 17 Rickshaws & a deployable software for other institutions
  - Effectuated web server & 2 android applications(Hindi interface in Drivers App), **5000+ downloads** on Google Playstore
  - Developed Business Model for self-sustainability using Lean Launch Pad methodology(Guide: DJ Miller, CEO Idea Folio)
  - Represented IIT Delhi and secured **2nd position** amongst top 100 teams at **Smart Innovations Techexpo, IIT Guwahati**
- **Co-Overall Coordinator, Entrepreneurship Development Cell:** **Student Incubation Centre (S.Inc)** (May,2018- Present)
   
◦ Spearheading **3-tier** team of coordinators and executives, directing **7 verticals** and planning year-long initiatives
  - Partnering with industry mentors & developed strategic decisions for S.Inc, **first-ever** initiative for **pre-incubation** in IITD
  - Led one of the **nation's largest** startup-investor one-to-one pitching session, with **300** startups & **25** major investors
  - Significant contribution to Startup Ecosystem and Entrepreneurship in IIT Delhi amongst all coordinators**Business & Entrepreneurship Conclave, Coordinator:** Led 2-tier team to host a conference with global CXOs & delegates
  - Hosted **Uber CEO** & President, Startup-India with over 1000 attendees; Successfully organised 2-day Internship & Job fair

## EXTRA CURRICULAR ACTIVITIES

- **International Conferences**
  - **World Business Dialogue, Germany:** Largest student-run international business convention: 300 delegates, 80+ nations
  - Consulted C-class executives on cloud solutions for logistic optimisation at **Covestro Headquarters, Germany**
  - Built relations with **CXO's of F500** companies in personal executive sessions; Worked with delegates from 5 nations
  - Appointed as the **Global Ambassador for Asia**, first-ever from IIT Delhi for excellence in networking
  - **Global Initiative Symposium, NTU, Taiwan:** Largest Asian National Design Forum on Blockchain
  - Conceptualised the Internet of Eco-Blockchains: Eco-friendly renewable energy solution using Smart Contracts and IoT
- **Public Speaking:** Anchored **10+ major** events of BRCA at Open Air Theatre, Dogra Hall and Sem Hall in the last 3 years
  - **Youngest** Male host in the popular star-nights featuring '**Euphoria, Vishal-Shekhar**' in Rendezvous'16 at IIT Delhi
  - Represented IITD to adjudicate asian parliamentary debate externals at SRDF, (**SRCC**) and many internal tournaments
- **Badminton, Captain:** Led hostel team selection and steered Badminton in 5+ inter-hostel matches with 500+ residents
  - Member of IITD **Institute Team**; Launched online QR Code feedback system to revive the diminished culture of sport



# SUNINT SINGH KHURANA



## ACADEMIC DETAILS

| Year | Degree / Board                               | Institute                             | GPA / Marks(%) |
|------|--|---------------------------------------|----------------|
| ---  | B.Tech in Chemical Engineering               | Indian Institute of Technology, Delhi | 9.09           |
| 2015 | AISSE (Central Board of Secondary Education) | Sanskriti School, Chanakyapuri, Delhi | 95.6           |
| 2013 | AISSE (Central Board of Secondary Education) | Sanskriti School, Chanakyapuri, Delhi | 10             |

## SCHOLASTIC ACHIEVEMENTS

- IITD Semester Merit Awards:** Conferred scholarship for **top 7%** performers for **three consecutive semesters** (2017-18)
- Department Rank 4** in Chemical Engineering Department out of 70+ students; Secured **9.5 GPA** in 6th Semester (2018)
- Summer Undergraduate Research Award (SURA):** Conferred by Industrial R&D Unit, IITD for excellent research (2017)
- London School of Economics:** Awarded **A-** Grade in *E-Business in the Digital Age*, Summer School Programme (2016)
- Kishore Vaigyanik Protsahan Yojana (KVPY) :** Secured **AIR-183** in the prestigious fellowship by DST, Govt. of India (2014)
- National Standard Examination in Physics (NSEP):** Awarded certificate of merit to **top 1%** students in Delhi by IAPT (2014)

## INTERNSHIPS

- Nomura Research Institute Consulting & Solutions** (May, 2018-July, 2018) : *Automotive Industry Consulting Group*
    - Conceptualised **2030 India Expansion Plan** for Japanese tech. giant by analysing drivers and trends in **8** industries
    - Triangulated data from research reports, press releases, focussed groups discussion for **forecasting industry trends**
    - Conducted research & developed model analysing **cost feasibility** of electric battery swapping model for three wheelers
    - Recommended dealer **network expansion proposal** for auto OEM using competition benchmarking, geographical analysis
- Awarded Pre-Placement Offer for exceptional performance; Recommendations for all three projects pitched to clients*

## PROJECTS

- Summer Undergraduate Research Award - Graphene Supercapacitors** (May, 2017-July, 2017) : *Electrochemical Lab*
  - Synthesised **80%** bi-layer graphene solution, **derived linear relation** between contrast value to AFM measured thickness
  - Analysed thickness data using MATLAB; Inspected CV curves to determine **max. capacitance** at optimum thickness

## EXTRA CURRICULAR ACTIVITIES

- Squash:** Competed and won at **6** national, state and institute level events over a span of 3 years
    - National Level:** Podium finish at **5** national level squash tournaments
      - Bronze Medal**, Squash Tournament, 52nd **Inter-IIT Sports** Meet, IIT Madras (2017)
      - Gold Medal**, Sangram, IIT Roorkee (2018); **Gold Medal**, Aparajit, SLS Noida (2017)
      - Silver Medals**, Squash, BOSM at BITS Pilani for **two consecutive years** (2016-17)
    - Institute Level:** Captain, Institute Team (2018); Vice-Captain, Institute Team (2017-18); Captain, Hostel Team (2017-18)
      - Gold Medal**, Inter Hostel Squash Championship held at IIT Delhi; First squash Gold Medal for Satpura Hostel (2016)
  - Debating:** Represented IIT Delhi at **5** national level debating competitions
    - Top 16**, Adjudicator, JMC Parliamentary Debate; **First external break** by IITD fresher in over 5 years (2016)
    - Winner**, Gladiator, 2v2 Open Parliamentary Debate Competition at IIT Delhi with over 70 participants (2018)
    - Winner**, Exposition, 3v3 Open Parliamentary Debate Competition at IIT Delhi with over 80 participants (2016)
    - Semi-Finalist**, Fresher's Parliamentary Debate, IIT Delhi with 80+ participants in Asian debate format (2016)
    - Participant, Ivy League Model United Nations (**MUN**), Philadelphia, USA representing Sanskriti School (2012)
- Awarded "Distinctive Performance in Overall Activities" by the Chemical Engineering Society for all-round excellence*

## POSITIONS OF RESPONSIBILITY

- Founding President - Overall Management & Consulting Project Lead, ShARE IIT Delhi** (Dec, 2017- Present) :
 

*ShARE is an innovative consulting firm having 500+ students from 30 top global universities and former tier-1 consultants*

  - Chosen among **60+ applicants** for setting up of IIT Delhi chapter; Leading management, training and recruitment
  - Successfully engaged **100+ freshers** in ShARE IITD's first event *Rise of Nations*; Garnered **publicity** for ShARE on campus
  - Global Consulting Project: Set-up an accelerator program in India for E-Mobility for a \$20bn automotive client**
  - Interviewed **6 Startup CXOs** to map 30+ startups in E-mobility in India; Pitched insights to client's **global directors**
- Captain, Institute Squash Team** (April, 2018 -Present): *Led team to podium finish in **6 out of 6** tournaments in 2017-18*
  - Liaised with St. Stephens College, Indian Naval Academy to organize friendly games **fostering match temperament**
  - Structured and implemented *IIT Delhi Ladder Tournament* to promote squash amongst students, alumni and professors
  - Organised *Freshers Week, Summer Training Camp, Inter-IIT Camp* for supporting and **mentoring** new team players
- Events Coordinator, Sportech** (Jan, 2018 - March, 2018) : *Hosted 35+ players for Inter College Squash Championship*
  - Managed **end-to-end** responsibility from inviting teams & referees to streamlining logistics for conducting it outside IITD
  - Added to the aura of the sports fest by inviting former **India No. 2 Gaurav Nanderjog** to the prize distribution ceremony



# SUSHREE JAGRITI SAHOO



## ACADEMIC DETAILS

| Year | Degree / Board                 | Institute                             | GPA / Marks(%) |
|------|--------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Chemical Engineering | Indian Institute of Technology, Delhi | 8.675          |
| 2015 | CBSE                           | Kendriya Vidyalaya Janakpuri          | 97.6%          |
| 2013 | CBSE                           | Kendriya Vidyalaya Janakpuri          | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- IITD Semester Merit Award:** Ranked among **top 7%** students in Chemical Engineering Department, 6th semester (2018)
- Co-authored** *Salt Permeation Mechanisms through Inkjet Printed Charged Mosaic Membrane*, **AIChE**, USA (2018)
  - Presented at ND UG Symposium & North American Membrane Society; abstract accepted for **AIChE** annual meeting, USA
- NDnano Fellowship Award:** Conferred 6000 USD to **14 students** globally by Center of Nano Science, USA (2017)
- IRD Student Start-up Action:** Awarded **INR 2 Lakh** per annum by MHRD; project Titli under **incubation** by IIT Delhi (2017)
- AISSCe Scholarship:** Awarded merit certificate & scholarship; secured rank in **top 0.1%** in Mathematics, English (2015)
- MHRD Scholarship:** Awarded KV Sangathan's scholarship for **outstanding performance** in academics in class XII (2015)

## INTERNSHIPS

- Hindustan Unilever Ltd, Mumbai** (May '18 - Jul '18) : *Regional Deployment Center, Skincare*
  - Established **design & process principles** for Pond's Cold Cream; aligned with Pond's *Global Teams at Shanghai & USA*
  - Conducted **Design of Experiments** at pilot plant scale of **25 kg**; reduced **batch cycle time** by **20%** by optimizing oil flowrate
  - Recommended **3 critical control parameters** in PFD; developed a robust process; to be implemented at Haridwar factory
  - Achieved **full readiness** of Dicare toolkit by initiating input of **8 Pond's South Asia cluster design projects**

*Received appreciation & letter of recommendation for technical insights & significant contribution to Brand Pond's*
- University of Notre Dame, USA** (May '17 - Jul '17) : *Research Internship, W.A.T.E.R Lab*
  - Elucidated fundamental diffusion transport properties** of charged mosaic membranes derived from copolymers
  - Investigated diffusional transfer properties across **32 experimental sets** on charge patterned membranes
  - Increased strength of polymeric membranes by 80%** by optimization of levels of photoinitiators & crosslinkers
  - Examined mechanical properties by fabricating over **50 membranes** by UV cure from butadiene polymer & derived copolymers

## POSITIONS OF RESPONSIBILITY

- Core Team Member, Enactus IIT Delhi** (Feb '16 - Dec '17):
  - Led social outreach initiative to earn extensive media coverage in leading **news platform**, Delhi times & e-news platforms
  - Established successful collaborations with **4 NGOs** in Delhi NCR; conducted **20 menstrual hygiene awareness sessions**
  - First Runner-up**, Enactus National Competition; judged on business impact; **72 participating teams** across India (2016)
- Project Leader, Titli** (Aug '17 - Dec '17):
  - Spearheaded a **team of 9** to improve menstrual practices of rural women by social innovation; impacted **2000+ lives**
  - Developed **biodegradable** cloth sanitary napkins; by conducting rigorous lab testing techniques; **reduced cost by 50%**
  - Set up a manufacturing hub producing **1000+** sanitary napkins in the **first 3 months of operations** at Kapashera, Delhi
  - Created 1 woman entrepreneur, 4 new jobs, sold **2000+** sanitary napkins in collaboration with an NGO run by **Cargill**
  - Project exec. ('16-'17)-Planned & executed a **survey of 1471 women** across **14 slums** in NCR for market need assessment
  - Analyzed menstrual hygiene awareness; **reached over 250 households** by designing *interactive awareness modules*
- Music Club Representative, Kailash Hostel, IIT Delhi** (Jan '17 - May '17):
  - Initiated first-ever open-mic sessions, instrument workshops and organized karaoke night in Kyaari- Kailash Hostel fest

## EXTRA CURRICULAR ACTIVITIES

- Business Case and Innovation Challenges:** Represented IIT Delhi at multifarious National-Level platforms
  - Winner, presented at National B-Plan Competition at St. Stephen's College, DU; **30 participating teams** all over India (2016)
  - First Runner-up**, STREE detective case study at **Tryst IIT Delhi**, North India's largest Science & Tech. festival (2016)
  - Second-Runner Up** among **50 participating teams**, Daan Utsav Challenge, awarded Rs. 50,000 by FourthAmbit (2017)
  - Finalist**, Asia's Largest Business Model Competition, Eureka by IIT Bombay among **10,000 participating teams** (2017)
- Cultural endeavors & creativity:** Trained for 5 years at Center for Cultural Resources & Training, Govt. of India
  - Dance:** Winner, Second Runner-Up in Inter Hostel Group Dance Competition with huge participation for two years ('16, '18)
  - Music:** Participant; Lead guitarist in inter-hostel Western Music competition, Jukebox for 2 consecutive years ('15, '16)
  - Debate:** Second Runner-up, Cluster Level English Debate Championship, Kendriya Vidyalaya Sangathan (2012)
- ChemE Society:** Volunteered in organizing fresher's event and farewell event of outgoing batch (2016)
- Catered to needs of **120+ students** of ChemE; managed logistics requirement; developed content of *departmental magazine*
- Vidya Teaching Project:** Volunteered to teach students of standard IX & X from marginal communities, NSS IIT Delhi (2016)



# UDAIVEER



## ACADEMIC DETAILS

| Year | Degree / Board                 | Institute                             | GPA / Marks(%) |
|------|--------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Chemical Engineering | Indian Institute of Technology, Delhi | 7.142          |
| 2015 | CBSE                           | Bal Niketan Senior Secondary School   | 91.4           |
| 2013 | CBSE                           | St. Annes Convent School              | 9.8            |

## SCHOLASTIC ACHIEVEMENTS

- Secured **99.15** percentile in JEE Mains 2015 conducted by CBSE out of the number of students that appeared
- Secured **98.14** percentile in Language Conventions, Problem Solving Assessment conducted by CBSE in 2014

## INTERNSHIPS

- **Shree Cement Ltd., Rajasthan** : Simultaneously worked on 2 projects during internship (May, 2018 - July, 2018)
    - **Improvement of Hot Air Generators and Furnace Performance**: Conducted energy audit for 2 grinding units (UPGU & KGU)
    - Performed in-depth efficiency calculations and identified heat losses equivalent to **24%** for HAG's and Furnaces
    - Derived strategy for coal savings equivalent to **Rs. 32 lacs annually** and 2 % reduction of cement specific heat cost
    - **Effect of Alternative Fuels**: Performed detailed analysis of the alternative fuels being used in cement production
    - Successfully identified heavy elements in alternative fuels through **ICP testing**; studied and reported their impact
    - Designed experiments for analysis of the impact of using alternative fuel on final clinker composition through **XRD** analysis
- Received Letter of Recommendation from the company for demonstrating exemplary conduct & performance*

## PROJECTS

- **Computational Fluid Dynamics Simulation (Prof. Jayati Sarkar, IIT Delhi)** : (April, 2017 - July, 2017)
  - Implemented hybrid version of **Lattice Boltzmann Method** for modelling boiling heat transfer inside a container
  - Simulated thermal multiphase flow based on improved pseudo potential LB approach using **C** and **TechPlot**
- **Entropy & Viscosity Determination of Silicate Melts (Prof. Gaurav Goel, IIT Delhi)** : (Jan, 2017 - April, 2017)
  - Designed Web Application for the determination of entropy and viscosity of silicate melts at high temperature and pressure
  - Employed numerical methods to solve equation of state of silicate melts inducing final reduced viscosity and entropy
  - Contrived application plotted dynamic isobars and isotherms for silicate melts at given input pressure and temperature
- **Data Structure Course Projects (Prof. Saroj Kaushik, IIT Delhi)** : (March, 2018 - April, 2018)
  - **Market Data Publisher**: Implemented **AVL Trees**; program supported queries for adding, deleting, updating and splitting stocks
  - **Travel Time Estimator**: Implemented MST using **Dijitras algorithm** for minimum time determination between two cities

## POSITIONS OF RESPONSIBILITY

- **IITD Cricket Team Vice-Captain** : Co-led and motivated team of 30 to win **3 consecutive gold medals** (May, 2017 - May, 2018)
  - Introduced app based **statistical scoring & slot based practice sessions** to keep track of statistics of **30+** players & save their time
  - Ensured weekly practice and intense fitness training sessions to foster match temperament and develop endurance
  - Pioneered conception of **IITPL**; Supervised tournament conduct; prepared fixtures conceptualized auction of **100+ players**
  - Awarded **Best Team of the Year, 2018** by BSA IIT Delhi for outstanding team performance throughout the year
- **Sportech Events Coordinator**: Part of a **4 tier team** responsible for execution of Sportech involving **1500+** athletes (Oct, 2018 - Feb, 2018)
  - Organized and structured a four-day Cricket tournament between **6** renowned college contingents with **90+** athletes
  - Conceptualized all the logistics, fixtures, sports equipment, infrastructure, medical amenities, scheduling and renting officials
- **Hostel Cricket Captain** : Led hostel team to **2 consecutive podium** finishes throughout last 2 years (July, 2017 - July, 2018)
  - Organised regular intra-hostel cricket tournaments like Satpura Premier League for establishing cricket culture in hostel

## EXTRA CURRICULAR ACTIVITIES

- **Inter College Level Sports**: Represented IIT Delhi Cricket Team which secured **7 podium** finishes throughout last 3 years
  - Winner, **Gold Medal** with Institute Cricket Team, **52nd Inter IIT Sports Meet** held at IIT Madras [2017]
  - Winner, **Gold Medal** with Institute Cricket Team, **Sportech**, Annual Sports Festival of IIT Delhi [2017]
  - Winner, **Gold Medal** with Institute Cricket Team, **Udghosh**, Annual Sports Festival of IIT Kanpur [2017]
  - Winner, **Gold Medal** with Institute Cricket Team, **Sangram**, Annual Sports Festival of IIT Roorkee [2018]
  - Winner, **Silver Medal** with Institute Cricket Team, **51st Inter IIT Sports Meet** held at IIT Kanpur [2016]
- **Institute Level Sports**: Participated in **5** institute level cricket tournaments securing **4 podium** finishes throughout last 3 years
  - Winner, **Silver, Bronze, Bronze, Inter Hostel** , 3 consecutive podium finishes amongst 11 hostels [2016,17,18]
- Participated in **Inter-school Mini Cricket World Cup** organized by **ICC (International Cricket Council)** [2010]
  - Awarded **Institute Colours BSA** for outstanding performance in Cricket at 51st Inter IIT Sports Meet at IIT Kanpur
  - Awarded **Outstanding Contribution to Sports Activities** for excellent performance at institute and hostel level sports
  - Awarded **Significant Contribution to Sports Activities** by Chemical Engineering Society for 2 consecutive Years



# URVASHI GUPTA



## ACADEMIC DETAILS

| Year | Degree / Board                 | Institute                             | GPA / Marks(%) |
|------|--------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Chemical Engineering | Indian Institute of Technology, Delhi | 9.367          |
| 2015 | CBSE                           | JVP International School, Jaipur      | 92.4%          |
| 2013 | CBSE                           | Maheshwari Public School, Jaipur      | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- **Department Rank 1:** Maintained the highest CGPA among **129 students** for **4 consecutive semesters**, Chemical Engg (2015-18)
- **IITD Semester Merit Award:** Conferred for being in the **top 7%** students in the batch for **2 consecutive semesters** (2016-17)
- **Student Exchange:** Selected after **3-tier procedure** to represent IITD at Institut Mines Telecom Lille Douai, France (2017)
  - Attained high level proficiency in French (**B1 level**) with **60+** contact classroom hours and daily interaction with locals
- **Fellowship, Imperial College London:** **1 in 3 students** sponsored for Summer Research Internship; worth **3 lakh INR** (2017)
- **APS Conference, US:** 'Structure evolution in evaporation of complex fluids'; abstract accepted for annual meeting (2017)
- **National Olympiads:** Qualified for **InCho** (Chemistry), awarded merit certificate; Selected for **INMO** (Mathematics) (2015)
- **KVPY:** Qualified for **fellowship** bestowed by Dept. of Science and Technology; attended National Research Camp (2014)
- **NTSE Scholar:** Awarded merit certificate & fellowship by NCERT, Govt. of India on the basis of a **2 tier** process (2011)

## INTERNSHIPS

- **Haldor Topsoe A/S, Denmark** (May, 2018 - July, 2018) : *Chemical Consultant, Smart Engineering division*  
*Conceptualised Material Selection Engine potentially saving INR 3 Crores and reducing 4700 man hours per year*
  - Reduced **36% discrepancies** by mapping inputs & outputs and identifying major bottlenecks in the current implementation
  - Developed novel & **scalable** strategy for digitalising and **simplifying workflow**; automated the process using **JAVA**
  - Liaised with plant engineers to **optimise** manual input & increase consistency & accuracy, enhancing engine performance*Received 'Letter of Recommendation' for hard work, professionalism and excellent performance during the internship*
- **Imperial College London** (May, 2017 - July, 2017) : *Supervisor: Prof. Omar K. Matar, Director of Research*
  - Obtained morphologies of particle laden droplets by performing **PDE analysis** for real life modelling of complex fluids
  - Developed depth, concentration and thixotropic profiles for **13 cases** by varying constraints for evaporation and spreading
  - Achieved **74% reduction** in computation time of flow simulations by employing **parallel computation techniques** in Fortran*Received 'Letter of Recommendation' for extraordinary contribution to project and constant positive appraisals by team*

## EXTRA CURRICULAR ACTIVITIES

- **Event Management and Awards:** Contributed across different student organisations
  - **Tryst:** Liaised with Cubelelo to organise **Rubik's Cube** workshop and competition with **200+** participating students (2017)
    - **Awarded 'Significant Contribution'** by Tryst 2017 for exemplary team skills & excellence in management of **100+** events
  - **Training & Placement Cell:** Successfully handled logistics for **150+ companies** and placements for **600+ students** (2017)
    - **Awarded 'Significant Contribution'** by Training & Placement Cell for valuable assistance during the placement process
- **Cultural Endeavors:** Enthusiastically participated in a multitude of sports and cultural events
  - **Winner, 1st position**, inter-hostel Carrom tournament; **Runners up**, inter-hostel video making competition (2015-16)
  - **Winner, 1st position**, Chess competition among **17 participants** conducted during the Kailash hostel fest, Kyari (2016)
  - Lead actor and **scriptwriter** in community street play, 'Shiksha' to spread awareness about education with an NGO (2016)
  - Acted and scripted inter-Hostel **street play**, 'Luka Chupi' based on the theme of Child Abuse in a **team of 13** (2015)
- **Social Endeavors:** Instrumental role in social initiatives for waste recycle and education
  - Executed Akshar project of NSS IITD in a **team of 20** collaborating with **Enactus SSCBS** to recycle paper waste to notebooks
  - Received **Certificate of Appreciation** by **NGO Naya Sawera** for tutoring 80+ children & organising cultural activities

## POSITIONS OF RESPONSIBILITY

- **Coordinator, Finance and Administration, Tryst'18:** (Sept 2017 - Feb 2018):
  - Led **3-tier team of 20+** executives and team heads to successfully manage the procured budget for 4-day technical fest
  - Collaborated with the team from all sectors to build an **extensive database** comprising of sector-wise budget & expenses
  - Liaised with IIT Delhi administration to facilitate **25+** significant purchases; allocated the budget across **5 segments**
  - Minimized cash-based transactions, achieving **100% digital transfers** in sponsorships; reduced net expenditures by **35%**
  - Managed cash flow and ensured **transparent** and seamless management of prizes, completing all operations through IRD
- **Representative, Indoor Sports Club:** (Mar 2016 - Mar 2017):
  - Achieved **100% YoY** increase in participation across inter-hostel events; led hostel to **2 podium finishes** over the tenure
  - Single-handedly organised **5** Institute level tournaments; Elected a team of **13** by organising 3 Intra-Hostel Tournaments
- **Executive, Chemical Engineering Society** (Apr 2016 - Mar 2017):
  - Awarded '**Best Executive**' by ChES for effectuating smooth conduct of events in terms of logistics, publicity and hospitality



# VATSAL SHARMA



## ACADEMIC DETAILS

| Year | Degree / Board                 | Institute                             | GPA / Marks(%) |
|------|--------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Chemical Engineering | Indian Institute of Technology, Delhi | 7              |
| 2014 | RBSC                           | Astha Academy                         | 86.4 %         |
| 2012 | CBSC                           | Chitrakoot Public School              | 10/10          |

## INTERNSHIPS

- **Shree Cement Limited, Beawar (Ajmer)** : Mentor: Mr. Sablok Saini, Sr. Manager, Quality Control [May,2018 - July,2018]
   
To Reduce water demand / Normal Consistency in OPC (Ordinary Portland Cement) and PPC (Portland Pozzolana cement)
   
o Achieved **25.75%** Normal Consistency from **28.75%** using high purity chemical gypsum without affecting the strength significantly
   
o Successfully devised methods for mutual inter-conversion between **anhydrite, dihydrate, and hemihydrate calcium sulfate**
  
o Designed an experimental plan of **16 ball mill** trials to study the effect of physical & chemical parameters on NC% of OPC43
   
o Developed technical understanding of the methods of conducting **PSD, XRD, CHNS, chemical and physical tests**
  
*Received LOR for reducing NC by 3% and decreasing the cost of Ordinary Portland Cement (OPC43) by Rs.38 / tonne*

## PROJECTS

- **Cold Start of PEMFC (Proton Exchange Membrane Fuel Cell)**, Mentor: Anil Verma, Associate Professor [July,2018 - Present]
   
o Optimized **catalyst loading** by continuous experimentation on self-start of PEMFC at room & subzero temperatures
   
o Engineered **Membrane Electrode Assembly (MEA)** by preparation of catalyst ink, membrane, and electrode
   
o Explored full cell study of hydrogen PEMFC by testing with Platinum Electrodes using **CV, EIS & Chronoamperometry**
- **Coal To Methanol Conversion**, Mentor: Divesh Bhatiya, Associate Professor [May,2017 - July,2017]
   
o Developed an understanding of methods of **coal gasification** and cleanup of syn-gas from coal gasifiers
   
o Formulated the **reaction sequence** for cleanup of syngas and **methanol formation** based on existing literature
   
o Designed an **ASPEN PLUS** model of **acid gas removal** and water gas shift reaction after coal gasification
- **Core Flooding System**, Mentor: Jyoti Phirani, Associate Professor [Jan,2017 - Apr,2017]
   
o Optimized temperature for porous media formation of glass beads of various sizes by extensive experimentation
   
o Formed core from various trails and used it in core flooding experiment to determine the porosity of the core

## POSITIONS OF RESPONSIBILITY

- **Tryst, IIT Delhi** (Nov, 2017 - Present) : North India's largest technical festival
   
**Core Team Member, Infrastructure & Workshops** (Aug, 2018 - Present)
   
o Spearhead a 4-tier team of **50+ coordinators & 200+ volunteers**, and selected as 1 of the 6 members out of a batch of 800+
   
o Conceptualizing **location-based resource allocation plan** to optimize the distribution of assets across space and time
   
o Optimizing **brand spacing & structured planning** of stalls for vendors & sponsors collaborating with marketing team
   
o Conceptualizing, planning and executing the 4-day long fest comprising of **70+ events & 15+ seminars** with a footfall of 40k+
   
o Pioneering real-time crowd monitoring to ensure equidistribution of the audience by **reducing waiting time** at hotspots
   
**Prize Coordinator** (Nov, 2017 - Feb, 2018)
   
o Implemented a simplified as well as the more efficient method to manage the distribution of prize money and goodies
   
o Directed a team of 7 students to ensure proper categorization and classification of 1000+ certificates & 20+ mementos timely
   
o Honed managing skills by managing a prize money of **7 lakh** and goodies of worth **2 lakh** with team coordination for 70+ events

- **Coordinator, Industry Day** (September, 2017 - September, 2017) :

- o Led a 2-tier team to assist the judges and self-coordinated for the judgment of **215 Ph.D. students** presenting their research
   
o Managed 215 poster lists of **5 themes** - Affordable Healthcare (61), Defense (25), Energy (61), Environment (37), and Smart Cities (31)
   
o Simultaneously managed food distribution for guests, students and professors at different places through scheduled planning
   
o Ensured proper management of security for all the people attending fest and arrangements of the signboards at different floors

## EXTRA CURRICULAR ACTIVITIES

- **Cricket**, Satpura Hostel, BSA : Hostel Level Tournament [2017 - 2018]
   
o Podium Finishes for 2 years in a row; 2 Bronze in Inter-Hostel Cricket Tournament held amongst 11 hostels
- **Mess Committee Member**, Satpura Hostel, BHM : Food Fest [2016 - 2017]
   
o Coordinated with team for distribution of budget in various food items and decoration of the the 3 day long fest for 400+ residents
- **Avanti Outreach Program** : Actively participated in social activities for the upliftment of students through educational guidance
   
o Provided **career guidance** to students of government and private schools in rural areas of Gurugram district for 2 weeks
   
o Spread awareness among the students from rural background about Avanti Outreach program and discussed its benefits



# VISHESH GOYAL



## ACADEMIC DETAILS

| Year | Degree / Board                 | Institute                             | GPA / Marks(%) |
|------|--------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Chemical Engineering | Indian Institute of Technology, Delhi | 6.908          |
| 2015 | CBSE                           | DAV Public School, Patiala            | 93.4           |
| 2013 | CBSE                           | DAV Public School, Patiala            | 10.0           |

## SCHOLASTIC ACHIEVEMENTS

- Completed **13.5/20** credits required to be eligible for a **Minor area specialization in Computer Science and Engineering**
- Kishore Vaigyanik Protsahan Yojna (KVPY) Fellowship award:** Awarded by Dept. of Science & Tech., Govt. of India ('14)
- Olympiads:** Secured Intl. Rank 188, NSO (SOF), Statewise Top 1% in National Standard Examination in Physics, ('12, '14)

## INTERNSHIPS

- Briston Technomach, Delhi:** *Data Analytics & Cloud Computing* (May, 2018 - Jul, 2018)
    - Implemented various **data mining & filtering algorithms** to extract useful data from the raw data received from sensors
    - Developed automation script for fill/theft detection on company platform, *achieved 99.7% accuracy* over 30000 test cases
    - Migrated the company database server from **SQL** to **MongoDB** over **AWS** platform for better performance
    - Redeployed various APIs from company server to the **AWS Lambda** platform, *successfully decreased the cost of cloud computing*
- Received Letter of Appreciation from the CEO of the company for demonstrating exemplary conduct & performance*

## POSITIONS OF RESPONSIBILITY

- Director, Fine Arts and Crafts Club :** Management of Azure-Fine Arts Society of IIT Delhi (Jul, 2017 - May, 2018)
  - Organized regular workshops & practice sessions; ensured participation in events inside and outside the campus
  - Conceptualized a **social media plan** for regular upload of artworks, resulted in increased engagement of people
  - Conceptualized, formulated and ensured practice sessions for **Inter-IIT 2017** & led the Fine arts team to the **3rd position**
  - Collaborated with **The New Art & DMRC** in designing and wall painting for the social campaign, **Wings for Women**
- Coordinator, Decoration, Tryst 2018:** Conceptualized and implemented overall decoration (Jan, 2018 - May, 2018)
  - Conceptualized, designed and implemented overall decoration in the Institute area with the theme of *Infinity & Beyond*
- Website Coordinator, Chemical Engineering Society (ChES), IIT Delhi :** (Jul, 2017 - May, 2018)
  - Spearheaded the formulation and maintenance of ChES website, handling both front and back-end of the website
- Website Coordinator, Axalta Campaign:** Developed and managed website for the campaign (Feb, 2018 - Apr, 2018)

## EXTRA CURRICULAR ACTIVITIES

- Social Endeavors- Vidya Teaching Project & Munirka Teaching Project:** Guided underprivileged school students in studies
- Mentor, Udaan(CBSE):** One among 11 mentors, to provide academic support to a total of 60 girl mentees in JEE level PCM ('16)
- Recreational Activity:** Grabbed **1st** position in the Sigil Painting, **2nd** in Group Dance & **2nd** in Costume Designing('18, '15, '17)
- Wall Painting:** Led the team of **18 artists** for an art project on a prominent wall of the institute, project handed over by Dean ('17)
- Event organization:** Led a team of **15** freshers & **10** representatives for smooth execution of BHM and House Day event ('16)

## PROJECTS

- Simulation of Downhill Skiing** (Prof. Prem K Kalra, IIT Delhi): Course Project (May, 2018 - Apr, 2018)
  - Implemented the model for skier represented by a **hierarchical model** with an **articulated structure** in OpenGL primitives
  - Implemented **controls** to interactively change speed, path and camera position; incorporated code to perform **collisions**
  - Rendered animation exploiting **OpenGL & LWJGL**, implemented **particle system rendering** for the snow effect
- Data Structures** (Prof. Ragesh Jaiswal, IIT Delhi): Course Projects (Jan, 2017 - Apr, 2017)
  - Stable Matching Problem, TNP:** Developed a program using **Gale-Shapely** algorithm for matching students with the companies
  - One-way tree problem:** Detected at least one way connected tree using **BFS** and **DFS** algorithm
- Computational Fluid Dynamics** (Prof. Jayati Sarkar, IIT Delhi): (Apr, 2017 - Jul, 2017)
  - Implemented hybrid version of the **Lattice Boltzmann Method** for modelling heat transfer in a container with a boiling liquid
  - Simulated thermal multiphase flow based on improved pseudo potential LB approach using **C & Tecplot**
- Entropy & Viscosity Determination of Silicate Melts** (Prof. Gaurav Goel, IIT Delhi): (Jan, 2017 - Apr, 2017)
  - Designed a **Web Application** for the determination of entropy of silicate melts at high temperature and pressure
  - Employed numerical methods to solve the equation of state to get final reduced viscosity and entropy for silicates
  - Developed application using **HTML, CSS, Javascript & PHP** to plot isobars and isotherms for known & custom silicates

## TECHNICAL SKILLS

- Programming Languages:** C, C++, Java, Python, R; **Web Development:** HTML, CSS, JavaScript, PHP, MongoDB

- **Industry Software Skills:** Autodesk Inventor, Ansys, Tecplot, MATLAB, Adobe Photoshop



# SUKANT KOUL

## ACADEMIC DETAILS

| Year | Degree / Board                 | Institute                             | GPA / Marks(%) |
|------|--------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Chemical Engineering | Indian Institute of Technology, Delhi | 8.547          |
| 2015 | AISSCE (Class XII), CBSE       | Amity International School            | 98.6%          |
| 2013 | AISSE (Class X), CBSE          | Amity International School            | 10.0/10.0      |

## SCHOLASTIC ACHIEVEMENTS

- Teaching Assistant:** Selected for course *Linear Algebra and Differential Equations*, mentoring over 400 students [2018]
- Department Change:** From **dual degree** to **B.Tech** in Chemical Engineering, one of 57 students out of 850 [2016]
- Invited to witness the **Republic Day Parade** from the **Prime Minister's Box** for exceptional Class XII performance [2015]
- CBSE Merit Certificate:** Awarded for achieving **perfect scores** in **Mathematics** and **Physics** (in top 0.1%) [2015]
- AIR 10**, National Science Talent Search Examination, 4 other under-200 ranks at Unified Council and SOF Olympiads [2006-14]
- CBSE Merit Certificate:** For outstanding performance in Class X AISSE, and securing A1 grade in all subjects [2013]

## INTERNSHIPS

- Technical University of Denmark** (May, 2018 - July, 2018) : *Centre for Catalysis and Sustainable Chemistry*
  - Synthesised **homogeneous complexes** to catalyse the alcohol-acceptorless dehydrogenation of **ethyl levulinate**
  - Optimised performance of the **Ru-MACHO catalyst** by designing and developing halide variants using **substitution reactions**
  - Performed a two-tier analysis of the factors affecting **gamma-valerolactone synthesis** using the **double diamond method***Received Letter of Recommendation from supervising professor for appreciable research and lab work*
- Haldor Topsoe India Pvt Ltd** (May, 2017 - July, 2017) : *Optimisation of cross flow heat exchanger size*
  - Performed optimisation for **interbed coolers**, key components in the company's flagship sulphur removing **WSA process**
  - Created **Cost v/s Q/LMTD** and **Area v/s Q/LMTD** charts for a new heat exchanger design to assist cost prediction
  - Optimisation led to a **theoretical average cost reduction** of **13%** over the formerly used heat exchanger design

## EXTRA CURRICULAR ACTIVITIES

- Debating and Adjudication:** 2 adj prizes, 11 adj breaks and 3 speaker breaks at national level tournaments
    - National Level: Represented IITD in over 20 national level parliamentary debating tournaments like St. Stephens
      - Winner**, Agahi, Rajiv Gandhi National University of Law; **Runner Up**, Best Speaker, Agahi, RGNUL Punjab [2016]
      - Winner**, Best Adj, Deen Dayal Upadhyay College [2017]; **Semifinalist**, NSIT Knockout Parliamentary Debate [2017]
      - Winner**, Best Adj, Gambit, Shri Ram College of Commerce [2018]; **Semifinalist**, Ram Manohar Lohiya National Law University [2018]
      - Winner**, Best Internal Adjudicator, IIT Delhi Parliamentary Debate and Debutant, IIT Delhi's national fresher debate [2017]
      - Adjudicated the finals of 8 national tournaments** including the KMC Frank Thakur Das Debate and Dialectics, Miranda House
    - Institute Level: Won multiple competitive debates across inter-hostel, inter-house and open formats in the Asian and British styles
      - Winner**, Inter Hostel British Parliamentary Debate [2017]; **Runner Up**, The Upside Down Debating Tournament [2018]
      - Winner**, Best Speaker, Inter Hostel British Debate [2017]; **Runner Up**, Inter House Freshers Parliamentary Debate [2015]
      - Semifinalist**, Intra-IIT Open Parliamentary Debate [2017]; **Semifinalist**, Exposition, Intra-IIT Parliamentary Debate [2017]
- Significant Contribution to Debating Club, BRCA; Significant Contribution in Cultural Activities, Chemical Engineering Society [2017-18]*

- Speedcubing:** 70 podium finishes (20 gold, 27 silver, 23 bronze) at 21 competitions in five different countries over four years
  - International Level: Currently ranked **6th in Asia** and **16th in the world** for solving 25 Rubik's Cubes blindfolded in an hour
    - Winner**, 3x3x3 Blindfolded and five other events in Vantaa, Finland; **19 podium finishes** in Denmark, Netherlands, Finland and France [2018]
  - National Level: Ranked in the top 10 in India for 7 different speedcubing events including solving a 3x3 cube blindfolded in 28.74 seconds
    - National Champion**, 5x5x5 Rubik's Cube Blindfolded [2016]; **National Runner Up**, 3x3x3 Multiple Blindfolded [2016,2017]
    - National Champion**, 4x4x4 Rubik's Cube Blindfolded [2016]; **Third place**, 7x7x7 Cube[2016], 4x4 blind, 5x5 blind [2017]

## POSITIONS OF RESPONSIBILITY

- Adjudication Core, IIT Delhi Parliamentary Debate** (January, 2018 - March, 2018) :
  - First and only third year** to be appointed Chief Adjudicator of IITPD; a position traditionally reserved for final year students
  - Led team of **50+ volunteers** to manage registration, publicity and execution of a national tournament: **94 debates, 33 teams, 109 judges**
  - Worked with **four CAs** to conceptualise 25 motions for nine debating rounds, draft tournament policy, and handle conflict resolution
- Key Positions, Debating Club** (April, 2016 - present) :
  - Panel Member:** Supervising overall functioning; advising secretary on logistical hurdles, deciding tournament policy and formats [2018-19]
  - Hostel Representative:** Organised inter and intra college events; took debating workshops and sessions to groom freshmen [2016-17]
- Organiser, Capital Cubing** (June, 2015 - July, 2017) :
  - Oversaw logistics and execution of 2016 National Championship held at IIT Delhi: **244 participants, 18 events, 3 days**
  - Organised **10 national level** Rubik's Cube competitions targeting enhanced outreach: gained **350 first-time competitors**



# SHUBHIKA JAIN

## ACADEMIC DETAILS

| Year | Degree / Board                 | Institute                             | GPA / Marks(%) |
|------|--------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Chemical Engineering | Indian Institute of Technology, Delhi | 8.332          |
| 2015 | AISSE, CBSE                    | MDS Sr. Sec. School Udaipur           | 91.80%         |
| 2013 | AISSE, CBSE                    | St. Mary's Con. School Udaipur        | 10             |

## SCHOLASTIC ACHIEVEMENTS

- Student Exchange:** Pohang University of Science & Technology (**QS Ranking 83**), selected via a 3-tier process ('17)
  - Granted *Global Korea Scholarship & Global Postechian Exchange Scholarship* for excellent overall performance
- Summer Undergraduate Research Award:** Conferred by **IRD department** for demonstrating excellence in research ('17)
- Department Change:** Secured change in discipline on the basis of academic merit at the end of 1st year of curriculum ('16)
- National Standard Examination in Chemistry:** Qualified NSEC securing place among **top 300** out of 40,000+ participants ('15)
- National Standard Examination in Physics:** Among national **top 1%** out of 37,000+ participants in exam conducted by IAPT ('15)
- KVPY Fellowship:** Awarded Scholarship by Government of India after national level aptitude test followed by interview ('14)
- Regional Prodigy, North Region-India, Abacus:** Appraised by SIP Academy India Pvt. Ltd. for Level-1 Abacus ('07)

## INTERNSHIPS

**GlaxoSmithKline Consumer Healthcare** (May '18 - July '18): *Live Projects, Supply Chain Vertical, Nabha Site*

- Process Improvement:** Refined oven parameters for Chocolate Horlicks SKUs by benchmarking against JIL Site
  - Reduction of **1000 tonnes/year** in oven food wastage (expected); Contributing to annual savings of **\$116,600**
- Productivity Improvement:** Optimized space usage in baking trays by conducting multiple on-line trials over 2 months
  - Increment of 1500 tonnes/annum in production (expected); Annual profits of **\$170,533/annum** for Chocolate Horlicks
- Efficiency Improvement:** Enhanced **evaporator timing efficiency by 14%** for product Boost by resequencing of unit process
  - Performed bottleneck analysis to increase production by **5 tons/day** summing to annual profits of **\$212,000/annum**

## PROJECTS

**Optical Diode Using Liquid Crystal Polymer** (May '17-June '17): *Under the supervision of Professor Rajesh Khanna*

- Granted a sum of **INR 25,000** to develop a prototype of lens exhibiting directional focusing & defocusing properties
  - Accomplished **50% lower manufacturing cost** by using alternate monomer, P-Azoxyanisole, instead of conventional polymers
- Received Letter of Recommendation from Prof. Rajesh Khanna & Prof. Jyoti Phirani for research & academic excellence*

## POSITIONS OF RESPONSIBILITY

- Hospitality Coordinator, Rendezvous'18** (Apr '18 - Present): *Oversaw a team of 30+ students to cater logistics for 100+ events*
  - Pioneered **online update system** to monitor accommodation & travel facilities for **150+ guests & 1000+ participants**
  - Introduced **multi-cuisine stalls** for guests by liaising with marketing team to forge strategic alliances with food sponsors
  - Revamped **team structure** by allocating tasks in 4 workgroups to increase accountability; Maintained **24-hour** hospitality helpdesk
- Events Coordinator, Tryst'18** (Dec '17 - Feb '18): *Spearheaded a 3-tier team of 30+ members to conduct 40+ events*
  - Orchestrated work plans to streamline the flow of events, curate logistics, handle event publicity & track itinerary progress
  - Collaborated with experts to judge the event, *Renew Environment*; Supervised **timely funds allocation** from sponsors
  - Worked in cooperation with the publicity team to ensure mailing to **650+ colleges** & channelled flagship competitions
- Representative, Board for Student Welfare** (Apr '16 - Apr '17): *Elected by 500+ residents of Himadri Hostel, IITD*
  - Organised **first ever cooler-camp**; Monitored **registration session of 850+**; Raised money for BSW Grants & Loans
  - Remapped **transport routes** of IITD bus services basis students' ease; Partnered with **NPO, Catalyst**, to benefit 15 girls
  - Core Team Member, Speranza'16: Coordinated **10+** events for annual youth festival of IITD in alliance with NGOs & NSS

## EXTRA CURRICULAR ACTIVITIES

- Dance:** Represented IIT Delhi's *Choreography Team, 'Ensemble'*, at festivals of **Delhi University** for the **first time**
  - Winners, **Rendezvous**, Choreography: A thematic group dance performance with teams from across Delhi ('16)
  - Runners-Up, **Mood Indigo**, Indigo Saga: IITD's best ever finish at Mood Indigo, IITB, *Asia's largest cultural festival* ('16)
  - Director, Institute Dance Production: Headed a team of 10+ freshers ('17); **Runners-Up:** Inter-hostel Group Dance ('16)
  - Awarded **Significant Contribution to Cultural Activities** twice, by *Himadri Hostel & Chemical Engineering Society* ('17)
- Social Endeavours:** Launched **Anti-Drug Campaign** in partnership with IITD OnAir, SCS Councillors & administration
  - WCAP, Korea:** Volunteered & represented India to educate youth for augmentation of cultural tolerance & mutual respect ('17)
  - GOONJ Collaboration:** Led first-ever alliance with NGO to install permanent collection boxes in Himadri Hostel ('18)
- Sports:** Earned medals at 10+ events over 5+ Athletics & sports activites at school, district & intra-college level
  - Silver Medal, 100x4 Relay: District level Championship('09); **Bronze Medal**, Long Jump: Freshers' Sports Week, IITD ('16)
  - Ac-Head Publicity, **Sportech**: Collaborated with blogs to increase the outreach of Blind Cricket World Cup held at IITD ('17)



# SURBHI JAIN



## ACADEMIC DETAILS

| Year | Degree / Board                 | Institute                             | GPA / Marks(%) |
|------|--------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Chemical Engineering | Indian Institute of Technology, Delhi | 9.185          |
| 2015 | CBSE                           | Cambridge Court High School, Jaipur   | 94.4%          |
| 2013 | CBSE                           | Cambridge Court High School, Jaipur   | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- **Department Rank 2:** In a batch of **69 students** in Chemical Engineering Department at the end of 6th Semester (2018)
- **IITD Semester Merit Award:** Conferred **4 times** for ranking among **top 7%** students for academic excellence (2015-18)
- **Summer Undergraduate Research Award:** Awarded by IRD Unit, IITD for successful **completion** of research project (2017)
- **Department Change:** Successfully secured department change on the basis of extraordinary academic credentials (2016)
- **KVPY Scholar:** Qualified for **fellowship** by Dept. of Science & Technology and attended National Research Camp (2014)
- **NTSE Scholar:** Recipient of scholarship by the Government of India for securing a position in **top 1000 students** (2013)
- **Certificate of Merit:** Awarded by CBSE for outstanding performance and obtaining grade A1 in all the subjects (2013)

## INTERNSHIPS

- **ITC Ltd., Guntur - Agri Business Division** (May, 2018 - July, 2018): *Sustainable Waste Disposal in Nicotine Extraction*
    - Conceptualized disposal mechanism for **30k MT/yr waste** in Nicotine Extraction process to be scaled up at **industrial level**
    - Collaborated with 8 tech. partners to analyze technology, feasibility, **Capex & Opex** for 5 ways of **tobacco waste** disposal
    - Established key design parameters & Capex of **100 KLD** Effluent Treatment Plant based on wastewater analysis & visits
    - Proposed an end-to-end solution for disposing **100% waste** sustainably; **37 LPA** potential revenue generation opportunity
- Received Letter of Recommendation from advisor for successful deliverables and significant contribution to the division*

## PROJECTS

- **Catalyst Preparation for Syngas conversion to Methanol (SURA)** (May, 2017 - July, 2017):
    - Developed **4 novel batches** of Cu based catalysts to utilize indigenous coal and improve India's '**Methanol Economy**'
    - Characterized catalyst properties & analysed reaction conditions by performing thermodynamic analysis using **Aspen tool**
    - Achieved a **methanol conversion of 15%** by conducting 2 catalyst activity tests at pressure conditions **reduced to 50%**
- Received Letter of Recommendation from Professor for consistent outstanding quality and volume of research work*

## POSITIONS OF RESPONSIBILITY

- **Central Team Member, Training and Placement** (April, 2017 - April, 2018):
 

*Spearheaded 3-tier team of **200+** volunteers & executives for conducting training & placement of around **1500** students*

  - Achieved **50% YoY increase** in selections; supervised Phase-1 training scheduling & streamlined selection process
  - Pitched **120+ companies** to hire full time recruits, managed logistics and ensured smooth process of **300+ companies**
  - Implemented realtime automated slotting of **150+ firms**; mentored student volunteers to conduct interview processes

*Awarded '**Exceptional Contribution**', 2018 and '**Significant Contribution**', 2017 by Training & Placement Cell, IIT Delhi*
- **Coordinator, Publicity, Tryst** (Sept, 2017 - Feb, 2018):
 

*Led a team of **40+** executives and team heads to manage the publicity of **70+ events** at on-ground and off-ground levels*

  - Increased outreach by **40% (YoY)**; supervised **content development** to publicize events on **6 social media platforms**
  - Social Campaign **Sashakt**- Increased participation by **30%**; launched weekly events & collaborated with media partners
  - Collaborated with **20+ schools and colleges** for pre-fest campaigns; facilitated **first-ever** screening of **live event updates**
- **Student Mentor, Board of Student Welfare** (April, 2017 - Present):
  - Guided **4 first yearites** to ensure their comfort and smooth transitioning to IITD; directed problems at appropriate forums

## EXTRA CURRICULAR ACTIVITIES

- **Accomplishments:** *Participated in various national level competitions*
  - **Campus Finalist, Citi Women Leader Award**, after 2-tier process with participation from **21** leading institutes (2017-18)
  - **Finalist, Indian Case Challenge**, business case competition of Kshitij, IIT Kharagpur with participation of **350+** teams (2018)
- **Social Endeavors:** *Undertook initiatives in the field of education & blood donation*
  - Designed and developed **10 inexpensive toys**, incorporating fundamental principles of science for underprivileged children
  - Organized Toys from Trash stall at **Kaizen'16**- social fest of IITD; actively participated with **NGO Goonj** in collection drives
  - Awarded **Certificate of Appreciation** from **NGO NITM** and **Yuva Parishad**; taught IT & organized blood donation camps
- **Event Management:** *Contributed to recreational & technical bodies of IITD*
  - **Activity Head, Tryst'17**: Ideated and conducted **4 major** flagship events; handled logistics and publicity of these events
  - **Technology & Innovation Club**: Organized TIC weekend & orientation; built database & approached **50** budding startups
  - **Chemical Engineering Society**: Organized department freshers' night & farewell event for outgoing batch of **120+ students**



# ANUJ CHOUDHURY



## ACADEMIC DETAILS

| Year | Degree / Board                           | Institute                             | GPA / Marks(%) |
|------|--|---------------------------------------|----------------|
| ---  | B.Tech in Computer Science & Engineering | Indian Institute of Technology, Delhi | 8.664          |
| 2015 | Maharashtra Board                        | Dinanath Junior College, Nagpur       | 93.6%          |
| 2013 | CBSE                                     | Bhavan's Vidya Mandir, Nagpur         | 10             |

## COURSES DONE

Calculus, Electromagnetic Waves&qua.mec., Linear Algebra & Diffe. Equa., Data Structures And Algorithms, Discrete Mathematical Structur, Digital Logic & System Design, Probability & Stochastic Pro., Computer Architecture, Programming Languages, Signals And Systems, Principles Of Artificial Int., Computer Networks, Analysis &design Of Algorithms, Algebra, Operating Systems, Intro To Automata & Th. Of Co., Intro. To Parallel & Dis. Pro., Machine Learning

## SCHOLASTIC ACHIEVEMENTS

- **International Olympiad of English Language (iOEL 2012)**: Secured All India Rank 1 in iOEL conducted in Class IX.
- **National Talent Search Examination (NTSE 2013) :** Awarded the NTSE Scholarship by the Govt of India in Class X
- **Kishore Vaigyanik Protsahan Yojana(KVPY 2014) :** Awarded the KVPY Award by the Government of India in Class XI
- **National Standard Examination in Physics(NSEP 2014):** Stood in National top 1% in NSEP conducted in Class XII.

## INTERNSHIPS

- **Capital One Datalabs, Bangalore** (May, 2018 - July, 2018) : *Data Analyst*

-Designed the **architecture** for an efficient **real time streaming system** after comparing **various streaming engines**.  
-Created a PoC **Streaming System** with **ETL pipeline** which would take data from **Kafka**, do Real Time processing of **data** and calculation of metrics, and used **Grafana** to create and display a dynamic dashboard for end user.  
- Used Profilers for Streaming Engines like **Spark JVM Profiler**, for ensure efficient utilization of resources.  
- Also Received a Pre-Placement Offer for Exceptional performance from Capital One at the end of the Internship

## PROJECTS

- **Machine Learning (Prof. Parag Singla)** (January, 2018 - May, 2018)

- Implemented the **Naive Bayes** algorithm on IMDB movie review dataset and predicted the rating given by the reviewer.  
- Did preprocessing such as stop word removal and feature engineering such as **tf-idf** and **bigram models** for the same.  
- Built a **Handwritten digit classifier** using **Support Vector Machine** with Pegasos algorithm, and using **self constructed Neural Networks** with different architectures for achieving maximum accuracy.  
- Implemented **Decision trees** in Python over classification of adults in different categories according to UCI dataset.  
- Image classification competition in **Kaggle** - Used **Deep Learning Models** with different architectures of **Convolutional Neural Networks** to classify images in 20 labels with high accuracy.

- **Distributed Programming (Prof. Subodh Sharma)** (February, 2018 - April, 2018) :

- Used Recursive bisection for **Graph Partitioning** along with **OpenMP** to perform operations on **parallel threads**.  
- Implemented algorithms such as **convex hull**, Prefix sum and 2d matrix sorting in **OpenMP** and **MPI** to make them scalable enough to run on **multiple nodes** and **multiple threads** for upto millions of key value pairs.

- **Operating Systems (Prof. S.R Sarangi )** (April, 2018 - May, 2018) :

- Implemented **User level threads** in **xv6** operating system, with Thread **creation**, **deletion** and **Priority scheduler**.  
- The scheduler could also combat **starvation** using techniques such as **Priority inversion** and **Priority donation**.

- **Online Quality Monitoring Of Services (Prof. M. Balakrishnan)** (May, 2017 - July, 2017) :

- Developed the **backend** of a **Web Portal** for monitoring of cleaning services, as part of the **Smart Campus Project**.  
- Used **MySQL**, **PHP** and **AJAX** to ensure Dynamic allocation of schedules, with **real time monitoring** of their work.

- **Data Structures and Algorithms (Prof. Amitabha Bagchi)** (Aug, 2016 - Nov, 2016) :

- Created a simple **inverted index** for search queries on hashed webpages. Used a hashing function efficient in arranging pages in proper priority for different search queries. Strings were stored as integral tuples to facilitate search.  
- Developed a **Tracking System** for a Mobile Phone class while exploiting **Hash Table** and **Binary Tree** like Constructs. It could keep track of the status of a mobile phone with a **Multithreaded** implementation of a call making system  
- Implemented a **Taxi System** which used **graphs** to represent routes between taxis. It could keep track of the Taxis, their **location**, the **nearest distance** between any 2 stations, and the route between those two stations using Dijkstra's .

## TECHNICAL SKILLS

- **Programming Languages:** C,C++,Java,Python,Prolog,ARM Assembly,OCaml,VHDL
- **Software and Frameworks:** MATLAB,git,Scikit,Tensorflow,MPI,OpenMP,ARMSim,Spark Streaming, Flink, Kafka Streams



# DHOLE SHREYAS KIRAN



## ACADEMIC DETAILS

| Year | Degree / Board  | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech in Computer Science & Engineering                            | Indian Institute of Technology, Delhi | 6.99           |
| 2015 | Maharashtra State Board of Secondary and Higher Secondary Education | Fergusson College                     | 88.15          |
| 2013 | Maharashtra State Board of Secondary and Higher Secondary Education | Loyola High School                    | 92.73          |

## COURSES DONE

Data Structures And Algorithms, Discrete Mathematical Structur, Probability & Stochastic Pro., Programming Languages, Principles Of Artificial Int., Computer Networks, Analysis &design Of Algorithms, Machine Learning

## QUALIFYING EXAMS

- Joint Entrance Examination (JEE) Advanced Rank: 74 (GE)
- Joint Entrance Examination (JEE) Mains Rank: 318

## SCHOLASTIC ACHIEVEMENTS

- INPhO:** Selected among the **top 35** students from the country to attend the IPhO training camp
- RMO Maharashtra Region: State topper** in the regional maths olympiad in 2013-14
- KVPY:** Cleared both the written test and interview stage of the renowned KVPY exam
- NTSE:** Awarded the prestigious NTSE scholarship after clearing both state level and national level exams
- Aditya Birla Scholarship:** Selected for the final interview round among applicants from top IITs and IIMs

## INTERNSHIPS

- Goldman Sachs & Co, Bangalore/ Technology Division** (May, 2018 - July, 2018) : Software Developer
  - Developed an API to check the **quorum status of a distributed component** to help recognise **network partitions**.
  - Performed **benchmarking tests** to check the performance of various distributed databases and key value stores.
  - Enabled **direct alert publishing** to a framework removing the dependency on external components which were used .
  - Fixed a bug involving misconfiguration of host machines when configuration was changed using a common framework.
  - Gained hands-on experience in developing large projects as part of a team and writing code which is **scalable**.
  - Gained insight into the development and maintenance of efficient high-performance **distributed systems**.

## PROJECTS

- Search Engine (Amitabha Bagchi)** (Fall, 2016) : Course Project to implement a simple search engine on a small subset of webpages.
- Taxi Aggregator Service (Amitabha Bagchi)** (Fall 2016) : Course Project to implement a dynamic taxi aggregator service similar to Uber
- AC circuit visualiser (Kolin Paul)** (Spring, 2017) : Course Project to write a program to visualise an AC circuit given its specifications and find the values of currents and voltages in it's various branches.
- Interpreter and Compiler(Sanjiva Prasad)** (Spring 2017) : Course Project to write an interpreter and compiler for a simple programming language using functional programming.

## TECHNICAL SKILLS

- Languages :** C, C++, Java, Python, OCaml, Erlang, VHDL
- Softwares :** MATLAB, Xilinx ISE

## EXTRA CURRICULAR ACTIVITIES

- Inter-hostel Football:** Won the inter-hostel tournament with Girnar Hostel.



# MOHAMMAD WASIH



## ACADEMIC DETAILS

| Year | Degree / Board                                   | Institute   | GPA / Marks(%) |
|------|--|---|----------------|
| ---  | B.Tech in Computer Science & Engineering<br>CBSE | Indian Institute of Technology, Delhi<br>Delhi Public School, Sector 12, RK<br>Puram, New Delhi | 8.009<br>95.8% |
| 2015 | CBSE   | Tagore International School, East Of<br>Kailash, New Delhi                                      | 10/10          |
| 2013 |  |   |                |

## COURSES DONE

Linear Algebra & Diffe. Equa., Intro. To Computer Science, Calculus, Electromagnetic Waves&qua.mec., Data Structures And Algorithms, Discrete Mathematical Structur, Digital Logic & System Design, Probability & Stochastic Pro., Principles Of Elect. Materials, Computer Architecture, Programming Languages, Design Practices, Signals And Systems, Principles Of Artificial Int., Computer Networks, Analysis &design Of Algorithms, Intro. To Biology For Engineer, Operating Systems, Intro. To Parallel & Dis. Pro., Machine Learning, Introduction To Psychology, Optimization Methods & Appl.

## SCHOLASTIC ACHIEVEMENTS

- **HRD Scholarship:** Awarded the **KVPY** scholarship in the year 2014-15, with an AIR of **1023**
- **School Merit Award:** Regular Class Topper in School from Class I to Class X
  - Was **Headboy** of junior section in Class V

## INTERNSHIPS

**Deepsight AI Labs, Gurugram (May, 2018 - July, 2018) : Computer Vision and Deep Learning**

- Neural Network Optimization and stabilization:
  - Did optimizations to network functioning for memory and time optimizations, achieved performance increase of more than 30 %
- Prediction Optimization:
  - Worked on improvement of algorithms to achieve faster predictions, achieved performance gain of more than 30%

## PROJECTS

### COURSE PROJECTS:

**Mobile Phone Tracking System (Amitabha Bagchi) (September, 2016 - October, 2016) :**

- Used k-ary trees to implement the data base at central server to keep track of all mobile phones registered

**AC circuit Image Drawer (Kolin Paul) (February, 2017 - March, 2017) :**

- Developed a C program to accept a list of connection nodes and draw an AC circuit for this

**Braille to Hindi Translation (M. Balakrishnan) (May, 2017 - June, 2017) :**

- Designed backward translation rules for back translating Braille to Devanagari on Liblouis software package
- Wrote wrapper codes to test the functionality of rules for Indian Languages like Kannada, Devanagari

**User Level Threads in xv6 (S. Sarangi) (March, 2018 - April, 2018) :**

- Implemented simple thread structure to support stack, state and function pointer
- Designed busy wait lock for acquiring a resource among threads
- Implemented priority based scheduler for acquiring and identified the problem of starvation in this design

### INDEPENDENT PROJECTS:

**Voice Based Chatbots (Aaditeshwar Seth) (March, 2018 - Present) :**

- Developed accuracy-metric using word-error rates b/w automatic and manual transcripts
- Developed Neural network for Gender classification by extracting features from audio files; currently testing
- Working on optimizing classification tasks by using Gaussian kernel in SVMs and adding penalty parameter

## TECHNICAL SKILLS

**Programming Languages:** C/C++, Java, Ocaml, Python, OpenMP, MPI, Basic CUDA, VHDL, ARM, Basic HTML/XML

**Softwares and Tools Worked on:** Xilinx ISE, Vivado Design Suite, XV6 Kernel, Autodesk Inventor, Valgrind

## EXTRA CURRICULAR ACTIVITIES

**Volunteer, VIDYA Teaching Project (May, 2017 - July, 2017):**

- Helped students of classes IX and X in Maths and Science

**Volunteer, Aarohan Teaching Project (November, 2015 - December, 2015):**

- Took coaching classes aimed at JEE level of deprived students at IIT campus



# SHIVAM CHANDRA



## ACADEMIC DETAILS

| Year | Degree / Board                   | Institute                             | GPA / Marks(%) |
|------|----------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Electrical Engineering | Indian Institute of Technology, Delhi | 8.642          |
| 2014 | ISC (Class XII)                  | ST. Joseph's College, Allahabad       | 96.6%          |
| 2012 | ICSE (Class X)                   | ST. Joseph's College, Allahabad       | 94.0%          |

## SCHOLASTIC ACHIEVEMENTS

- **Department Change:** One of 15 in entire batch to secure discipline change to Electrical Engineering on a **merit basis** (2016)
- **Design Innovation Summer Award (DISA):** Conferred by **Industrial R&D** unit, IIT Delhi for outstanding innovation (2016)
- **Collaborative Research:** Member of the **Audio Zooming** team working in association with **Samsung R&D Center** (2018)
- **HPAIR:** Accepted for **2 years** among **300** international delegates to attend the Conference at Sydney & Boston (2017, 2018)
- **Inspire Scholarship:** Ranked in **top 1%** students nationwide in ISC examination; awarded scholarship by **MHRD** (2014)
- **Central Government Scholarship:** Awarded for being one of the **12** students with excellent performance in JEE Main (2014)
- **Olympiad:** Secured **Rank 2** in Talent Search Examination, organised by HRI (Dept. of Atomic Energy, Govt. of India) (2013)

## INTERNSHIPS

- **ITC Limited, Saharanpur** (May, 2018 - July, 2018) : *Quality Assessment & Technology Advancement, Tobacco Division*
    - Benchmarked ITC's packet quality & analysed trends across **9 units** to target the Wrapping Quality Index (**WQI**) of packs
    - Developed an '*Online Packet Vision System*' to achieve **96% reduction** in WQI assessment time with improved standards
    - Designed an investment charter of **USD 1.0 Mn** for immediate project deployment at ITC's **9** cigarette production units
- Received Letter of Recommendation from the Branch Manager & critical acclamation from the Division CEO & VP (Tech)*

## PROJECTS

- **Portable system for real-time non-contact SpO2 measurements (DISA Project), IITD** (May, 2016 - July, 2017) :
    - Designed the first prototype for SpO2 measurement using '*Polarised Light Imaging*' for **faster** computing & **optimised** storage
    - Programmed image processing tool using **OpenCV & Raspberry Pi** to extract channels and process **multi-camera feeds**
- Published a paper & accepted for lecture presentation at 13th BIOCAS 2017, IEEE Biomedical Circuits Conference, Italy*

## POSITIONS OF RESPONSIBILITY

- **House Secretary, Udaigiri House** (April, 2018 - Present) :
 

*Unanimously elected from over **500** students to lead a 3 tier team of 8 secretaries & 50+ office bearers across all 5 boards*

  - Designed a **360-degree multi-rater** review system leading to a **55%** increase in the overall performance of all office bearers
  - Launched Udaigiri's **first** website with e-notices & feedback portal to effect immediate redressal with up to **75%** faster rate
  - Conceived & commissioned **5** key infrastructural projects including *Club Area & Library*, along with a **24-hour** juice corner
- **Maintenance Secretary, Udaigiri House** (April, 2017 - April, 2018) :
 

*Unanimously elected to lead a 10-member committee to represent hostel at BHM & administer effective maintenance policies*

  - Instituted donations from the residents for the **Cycle & Book Renting** System; inculcated the spirit of resource conservation
  - Designed & executed the '*War on Drugs*' campaign instrumental in lifting the **2nd Runners-Up**, BHM Stall Running Trophy

*Awarded the prestigious **Best Maintenance Secretary** Award (2017-18) for significant contribution to BHM & Udaigiri House*
- **Head (IITD Team) & Manager (Training & Mentorship), BloodConnect** (Feb, 2017 - Feb, 2018) :
  - Organised **10+** major blood camps involving more than **1000** donations; first team head to initiate a **3-day camp** at IITD
  - Led end-to-end operations of the largest college team of **25+** people; piloted the recruitment of **40+** new volunteers
  - Strategised & implemented a new recruit cycle for **100+** volunteers across **7+** cities, aimed at reducing the dropout rate

## EXTRA CURRICULAR ACTIVITIES

- **Technical & Case Study Competitions:** Achieved podium finish at multiple national-level platforms
  - **National Runner-up**, Xylomancy, Case Study Training & Competition, organised by TATVA, Delhi Technological University (2018)
  - **National Runner-up**, Case Study Competition (*Technology Drives a Sustainable Future*), organised by **Axalta Systems** (2018)
  - **National Semi-Finalist**, EXL EQ Case Study; organised by **EXL Analytics** annually across **20** premier colleges (2018)
  - **Best Performer**, Jigyasa- achieved **3 podium** finish in **National-level** Technical events, organised by NIT Allahabad (2013)
- **Debating & Oration:** Hostel Debating representative; led the hostel to multiple quarter-final breaks
  - **Winner** (Best Speaker), English debate; **Runner-Up**, Declamation, organised by Literary Club, NIT Allahabad (2014)
  - **Quarter Finalist**, Inter Hostel & Open PD Tournaments; broke successively for **3 years** as part of the primary team (2016-18)
  - **9 podium** finish in the school level events including Winner, Best Speaker, Best Team & Runner-up positions (2010-14)
- **Dramatics:** Active participation in club events in the capacity of actor & Director as a part of Udaigiri
  - **Runner-Up**, Inter-hostel Street Play Competition; participant in Inter Hostel Mime, Contested together by 13 hostels (2015)
  - **Director**, 'Khwaishen' theatre society, Instrumental in winning the **Institute Dramatics Trophy- 2nd Runners-Up** (2018)



# ANUDEEP VIBHUTI



## ACADEMIC DETAILS

| Year | Degree / Board                   | Institute  | GPA / Marks(%) |
|------|----------------------------------|--|----------------|
| ---  | B.Tech in Electrical Engineering | Indian Institute of Technology, Delhi<br>Delhi Public School, Sail Township,<br>Ranchi | 7.269          |
| 2015 | AISSE, conducted by CBSE         |  | 95.2%          |
| 2013 | AISSE, conducted by CBSE         | D.A.V. Public School, Power Grid<br>Campus, Bihar Sharif (Nalanda)-<br>Bihar           | 10/10          |

## COURSES DONE

Product Realization By Manf., Data Structures And Algorithms, Microeconomics, Probability & Stochastic Pro., Quantum Mechanics, Computer Architecture, Design And System Laboratory, Differential Equations

## QUALIFYING EXAMS

- Joint Entrance Examination (JEE) Advanced Rank: 185 (OB)

## SCHOLASTIC ACHIEVEMENTS

- State Level Round of NTSE 2012-13:

- Cleared the state level round of National Talent Search Examination conducted by SCERT (Bihar) with state rank 13.

## INTERNSHIPS

- Autodesk Pvt. Ltd., Pune(India) (May, 2018 - July, 2018) : *Front-end Developer*

- Designed a **real time** notification system to enable **proactive** communication between a dynamic web app's clients.  
- Worked with JavaScript, AngularJS, CSS, HTML, jQuery and created custom AngularJS *directives* and *services*.  
- Used **server polling** and **web-hooks** and also implemented a **web socket** connection in the front-end with AngularJS.  
- Implemented two types of notifications- custom notifications for better UI in app window and browser **push** notifications.

## PROJECTS

- Course Project- A Taxi aggregator service (Prof. Amitabha Bagchi) (Fall 2016) :

- Designed a replica of an online taxi service which was implemented using **graphs** with vertices as pickup/drop spots.  
- The **shortest** path between source and destination and accordingly nearest available taxi were chosen using **Dijkstra's Algorithm**. Graph was implemented as **adjacency list**.

- Course Project- A small search Engine (Prof. Amitabha Bagchi) (Fall 2016) :

- Implemented a search engine using inverted indices of a set of pages. For efficient searching, **AVL** trees were used.  
- Each page in the search result was given a **relevance** according to which the search results were sorted.

- FPGA based simulations of power systems (Dr. Sumit Pramanick) (August, 2018 - Ongoing) :

- Working on power electronics circuits simulation both offline and **real time** using digital modelling on FPGA.

- Course Project- Control of Separately excited DC Motor Drive (Dr. G. Bhuvaneshwari) (May 2018) :

- Simulated the control of a separately excited DC Motor Drive System through a 3 phase fully controlled converter and recorded the **torque-speed characteristics** including braking due to field reversal. Also studied the effect of an abrupt change in the firing angle of the converter.

## TECHNICAL SKILLS

- Programming Languages and Libraries : C, C++, JAVA, JavaScript, CSS, HTML, AngularJS, jQuery, VHDL
- Softwares : MATLAB, Xilinx ISE, Tinkercad, PSIM, CPLD

## EXTRA CURRICULAR ACTIVITIES

- Volunteer, Indus Action Right to Education Awareness Program (January 2016- February 2016)

- Helped in awareness program organized by the NGO **Indus Action** by *telephonically* informing more than **100** kids' parents about free education and number of seats reserved in private schools under the **RTE Act**.

- Volunteer, Aarohan Teaching Project (August 2016-November 2016)

- Mentored IIT aspirants of std. XIth who could not afford the costly coaching institutes and taught *Maths* and *Physics* for **JEE Main** and **JEE Advanced**.

- Prepared **Mock Tests** for **JEE Main** and **JEE Advanced** on **all 3 subjects** and attended to different kinds of doubts regarding future career pursuing.



# ANURAG RAWAT



## ACADEMIC DETAILS

| Year | Degree / Board                   | Institute                             | GPA / Marks(%) |
|------|----------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Electrical Engineering | Indian Institute of Technology, Delhi | 6.776          |
| 2015 | CBSE                             | Delhi Public School, Lucknow          | 93.8%          |
| 2013 | CBSE                             | Delhi Public School, Lucknow          | 10(CGPA)       |

## SCHOLASTIC ACHIEVEMENTS

- **SCRA (Special Class Railway Apprentice):** Honored among top **0.0001% (42/2.5lac)** exam conducted by **UPSC ('15)**
- **KVPY:** Selected among top **0.066%** to be felicitated for this prestigious fellowship award by Government of India ('15)

## COURSES DONE

Linear Algebra & Diffe. Equa., Intro. To Computer Science, Calculus, Data Structures And Algorithms, Circuit Theory, Signals And Systems, Microeconomics, Digital Electronics, Control Engineering I, Probability & Stochastic Pro., Human Values And Technology, Analog Electronic Circuits, Computer Architecture, Moral Literacy And Moral Choices

## INTERNSHIPS

- **Summer intern at Revolutionaries, New Delhi** (May, 2018 - July, 2018) : *Model fabrication of EEG machine*
  - Incorporated wireless mode **Bluetooth data packets** to reduce transmission losses and **increase SNR(15%)**
  - Developed **EEG headset CAD model** prototypes with alternate *graphene chips and Diff. amplifiers* in sensors
  - Maintained and pitched a dynamic database of over **100 organisations** for collaborations and sessions
  - Boosted social media outreach to **1000+ followers** through **constructive pattern spamming**
- **Technical intern at IRSC, IIT Delhi** (May, 2017 - July, 2017) : *Crash Data Analysis*
  - Implemented a *Matlab* code for CCTV to estimate **speed of impact** of crashes
  - Extracted crash objects using **Digital image processing (Morphology, Block Matching and Hough transform)**
  - Analysed over **500 videos** to conclude a safety net speed review parameter by an **accuracy factor of 90%**

## PROJECTS

- **Advanced LIGO analysis (Professor Deepak Patil)** (May, 2017 - July, 2017)
  - Studied **LIGO(Laser Interferometer Gravitational-Wave Observatory)** the most advanced Observatory in the world
  - Structured lumped analogous model to **Pantograph and Quaternary Car Suspension** on control system theory
  - Targeted noise cancellation via **Model matching** based on **Nevanlinna Pick problem** and **State Space method**
  - Optimised the **S.S and transient stability** of model simulation to **17% on set PID control parameters** on *Matlab*
- **Mobile Phone Tracking System (Professor Amitabha Bagchi)** (July, 2016 - Dec, 2016)
  - Implemented a **Tree data structure** that tracks phone node locations and establishes connections using *Java*
  - Improved the efficiency by **30 % using Dijkstra's algorithm** for input database of **100 mobile nodes**
- **A Taxi Aggregated Service (Professor Amitabha Bagchi)** (July, 2016 - Dec, 2016)
  - Implemented a **taxis service software structure**, featuring *nearest taxi, shortest path and estimated time*
  - Improved run time efficiency by **35 % using minimum graph spanning algorithms**
- **A small search Engine (Professor Amitabha Bagchi)** (July, 2016 - Dec, 2016)
  - Implemented the basic data structure underlying search engines: an **inverted index** to answer search queries
  - Improved words and complex phrase scanning along with appending new occurrences using **chained Hash tables**

## TECHNICAL SKILLS

- **Languages:** C,C++, Java, VHDL, R
- **Softwares:** Auto CAD, Autodesk Inventor, MATLAB, Arduino, Filmora

## POSITIONS OF RESPONSIBILITY

- **Marketing Profile**
  - **2015-2016:** Bagged Title Sponsor **GOTGAME-1.4 lac** for **SporTech** and **media sponsors-1 lac** for **Rendezvous**
  - **2016-2017:** Marketing Executive Head For **EDC** (Entrepreneurship development Cell) and **TIC**(Technology and Innovation Club)

## EXTRA CURRICULAR ACTIVITIES

- **Football:** Led School team in **The Zone 3 Tournament- Zonal Level** held at Allahabad ( October, 2014)
- **Debating:** **Semi Finalist** at **Stalwart(2015-2016)** and **Inter Hostel British Parliamentary Debate(2016-2017)**



# ANVESH GUPTA

## ACADEMIC DETAILS

| Year | Degree / Board                   | Institute                             | GPA / Marks(%) |
|------|----------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Electrical Engineering | Indian Institute of Technology, Delhi | 7.645          |
| 2015 | AISSE                            | Bansal Public School, Kota            | 94.4           |
| 2013 | AISSE                            | Vidyasagar School, Indore             | 10             |

## COURSES DONE

Linear Algebra & Diffe. Equa., Data Structures And Algorithms, Introduction To Economics, Digital Electronics, Probability & Stochastic Pro., Operations Management, Digital Image Processing, Organization And People Management

## SCHOLASTIC ACHIEVEMENTS

- **Joint Entrance Examination(JEE) Advanced Rank:** 275 (GE)
- **Co-authored** Gupta A. et. al., 'Structural Transformation in an Open Economy with Sectoral Trade', IJAMR (2018)
- **Certificate of Merit:** Awarded by the National Standard Examination in Chemistry (2014-15) for being in **Top 1%**
- **Certificate of Merit:** Awarded by the National Standard Examination in Astronomy (2014-15) for being in **Top 1%**
- **Certificate of Merit:** Awarded by CBSE for **Perfect score** in Continuous & Comprehensive Evaluation in AISSE(2013)

## INTERNSHIPS

- **SCHNEIDER ELECTRIC INDIA, Bangalore** (May, 2018 - Jul, 2018) : *Image Verification*

*Efficiently compiled results and inferences being used at Schneider Electric for image verification step at back-end*

- Analysed various algorithms-**SSIM, Mean Squared Error** etc. on images stored on local disk, web URLs & **SQL database**
- Developed a solution to *Integrate above Mentioned Algorithms into a jar file* so that it can be used on web applications

## PROJECTS

- **Taxi Routing & Tracking Simulation (Prof. Amitabh Bagchi)** (Oct, 2016 - Nov, 2016) :
  - Modeled area around IIT Delhi using Weighted Graphs; *Optimized Time-Bounded Requests* to **Maximize Profit** of Taxi Service
  - Applied **Dijkstra's Algorithm in Java** for finding nearest available taxi and its efficient route to the desired destination
- **Case Study: Production of Frozen Peas (Prof. Jitendra Madan)** (Oct, 2017 - Nov, 2017) :
  - Led team of 5 members to analyse operations of a manufacturing firm; Applied principles for effective operations management
  - Designed new operations plan which was effective to *solve the bottlenecks and freezer capacity delays on assembly line*
- **Case Study: Factors affecting Organization Culture (Prof. Shuchi Sinha)** (Mar, 2018 - Apr, 2018) :
  - Led team of 5 members to analyse organizational culture and behaviour of leading firms such as *Apple, Starbucks, Amazon* etc
  - Presented various leadership styles within organizations that affects the workplace culture and behavior of individual and group
- **Entrepreneurship Course (Prof. P.V.M Rao )** (Jan, 2018-Feb, 2018) :
  - Independently formulated a **Business canvas model** of a food delivery start-up and *published Youtube video* presenting it
  - Gained Insights into various innovative Start-ups solving real life problems by attending 14 sessions by eminent entrepreneurs

## POSITIONS OF RESPONSIBILITY

- **Representative, Student Affairs Council(SAC)** (Apr, 2017 - Mar, 2018) :
  - Jointly worked with Student Affairs Council in formulating & implementing key **academic and administrative policies**
  - As a part of the team, Collaborated in process of **Designing Constitution** with CAIC to Introduce a **Technical Board**
  - Organized Regular Meetings in hostel for the better representation; **Voiced hostel related Issues** before the senate
- **Representative, Indoor Sports Club(ISC)** (Apr, 2016 - Mar, 2017) :
  - Responsible for **administering all hostel affairs** related to *Chess, Carrom & Snooker Pool* in allotted hostel budget
  - Guided participants to **Secure Gold** in Carrom & Snooker Pool clinching **Prestigious ISC Trophy among 13 Hostels.**
  - Managed and Executed various competitions- Inter-hostel and Inter-IIT Open Trials to increase Indoor Sports Culture
- **Events Executive, Alumni Affairs and International Programs(AAIP)** (Apr, 2016 - Mar, 2017) :
  - Managed various events-IAS panel talk, 1971 mechanical batch visit etc. with responsibility of supervising entire event
  - *Executed Staycon* during Convocation'16. **300+ Alumni signed up** to remain connected and contribute to institution

## EXTRA CURRICULAR ACTIVITIES

- **Publicity Activity Head, Tryst'17**(Jan, 2017 - Mar, 2017):
  - *Designed Wikipedia Page* of Tryst'17; Organize many **online** and **offline** competitions- Monday Maniacs, Minutes to win it etc
  - **Led 50 campus ambassador** across North Indian Colleges to publicize competitions Startup Conclave, AI Challenge etc.
- **Cultural Activities:** Secured a **Podium Finish** in Potpourri(Word Games & Literary Quiz Event) and in India Quiz (2015)
- **Social Endeavours:** Volunteer, Lakshyam Teaching Project(Jan, 2016):Helped in Managing a Dance & a Sport Event



# DHANANJAY R VARMA



## ACADEMIC DETAILS

| Year | Degree / Board                   | Institute                             | GPA / Marks(%) |
|------|----------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Electrical Engineering | Indian Institute of Technology, Delhi | 8.541          |
| 2015 | AISSCE (Class XII CBSE)          | Saraswathi Vidyaniketan, Kochi        | 95%            |
| 2013 | AISSE (Class X CBSE)             | Bhavan's Vidya Mandir, Kochi          | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- **Semester Exchange:** Represented IIT Delhi at *INSA Toulouse, France* after 3-tier merit-based selection procedure (2017)
  - Received **INSA Scholarship**; Achieved A1 French proficiency; Delivered business-plan presentations in multi-cultural teams
- **IITD Semester Merit Award:** Awarded for academic merit, for featuring in **top 7%** of institute with 800+ students (2016)
- **KVPY Scholarship:** Conferred prestigious fellowship funded by DST, Government of India after 2-stage process (2014)
- **NTSE Scholarship:** Granted prestigious scholarship funded by NCERT, Government of India after 2-stage process (2011)
- **3rd Rank, RMO:** Regional Mathematics Olympiad conducted by Homi Bhabha Centre for Science Education, TIFR (2014)
- **Bhavan's Scholarship:** Awarded rank in **top 3** of state for **5** separate years by Bharatiya Vidya Bhavan (2008,09,10,12,13)

## INTERNSHIPS

- **Nomura (NRI) Consulting and Solutions, Gurgaon | Business Strategy Consulting Group** (May, 2018 - Jul, 2018)
  - Industry shortlist for business expansion: *Developed framework to assess attractive industries for B2B growth of large MNC*
  - Investigated past growth, drivers, technology & client product adoption, and forecasted future growth for **16 Indian industries**
  - Grid-Scale Battery Energy Storage Market in India: *Created proposal for potential client pitch and future sales activities*
  - Analysed market drivers, policy scenario, potential value-chain, players and white space to facilitate Indian **market entry**  
*Awarded Pre-Placement Offer (PPO) for exceptional performance, dedication to tasks and time management skills*
- **Aalto University, Helsinki, Finland | Machine Learning Intern, Applied Physics Department** (May, 2017 - Jul, 2017)
  - Selected among **top 15** applicants to work at 'Centre of Excellence' through Aalto Science Institute Internship Programme
  - Evolved machine learning models with **80%+ accuracy**, to aid detection of molecules from atomic-force microscopy data
  - Automated and accelerated human-operated tasks; Work completed will impact future research on surface-active drugs

## POSITIONS OF RESPONSIBILITY

- **House Secretary, Satpura House, BHM :** (Apr, 2018 - Present)
  - Unanimously elected by more than **450 students** to lead 5 secretaries, 14 representatives and 26 captains across **5 boards**
  - Deployed **first ever** hostel website, facilitating information dissemination, feedback assimilation and creative blog posts
  - Launched *Satpura Marketplace*; Introduced **first ever** hostel-level help-sessions for curricular and co-curricular guidance
  - Instituted *Satpura Infrastructure Makeover Scheme* to renovate hostel gymnasium, common area & reading room facilities
- **Secretary, Photography & Films Club, BRCA : Elected to head club, leading a team of 13** (Jan, 2017 - Apr, 2017)
  - Improved participation statistics to record a **100%+ increase** in registrations, with greater post-graduate engagement
  - Revamped existing competitive event structure to implement **novel league format**, enhancing quality of submissions
  - Initiated monitored external involvement in decision-making and event formulation; Instituted and led a team of 6 captains
- **Chief Editor, Board for Student Publications, BSP : Awarded for Outstanding Contribution** (Apr, 2017 - Apr, 2018)
  - Spearheaded a team of 12 technical editors to increase outreach and readership through content optimisation and design
  - Formulated BSP's flagship event, with **150% growth** in participation; Devised new online publicity tools, raising page clicks
  - Led execution of *GSec Miles*: Conceptualised to improve accountability of Institute General Secretaries across boards

## EXTRA CURRICULAR ACTIVITIES

- **Photography, Film-making, Graphic design:**
  - **Winner**, *Frozen*, Photography competition, PFC, IITD: Displayed prowess in both photography and post-processing (2018)
  - **Winner**, Great design, *Gazettale*, Flagship magazine making competition, BSP, IITD: **Singlehandedly** designed entry (2017)
  - **Winner**, *Stage Play*, Dramatics Club, IITD: Director of photography, videography and background sequence editing (2016)
  - **Creative Coordinator**, *Tryst '18*; **Creative Coordinator**, *Literati '17*: Piloted entire creative operations of fests (2017,18)
  - **Chief of Design**, *Olivya*, **Startup**, Social question-answer forum: Headed design of product & publicity tools (2016-18)
- **Business Case Study Challenges:**
  - **National Runner-up**, *Intellectual Maniacs*, 2-stage **strategy** case, Shaheed Sukhdev College of Business Studies (2018)
  - **National Second Runner-up**, *Caso Dominor*, 2-stage **marketing** case for **real client**, Hansraj College, Delhi University (2018)
  - **National Finalist**, 1) **Best Manager**, **strategy** & 2) **Marketing Villa**, **marketing**, 3-stage competitions, **IIT Kanpur** (2018)
- **Quizzing: Highest-capped league team member; Represented IITD at IIMA - Nihilanth'18, annual inter-IIT/IIM quiz meet**
  - **Second Runner-up**, *Bizmaavat*, 2-stage **national-level business quiz**, MSIT Quizzing Club, Delhi University (2018)
  - **Second Runner-up**, *Variety Quiz*, League Quiz, Quizzing Club, IITD: Subjects - Science, tech, travel, history (2018)
  - **Quizmaster**, *Lorem ipsum*, General League Quiz, Quizzing Club, IITD: Innovative first milestone quiz of the season (2017)



# DIVYANSH GUPTA



## ACADEMIC DETAILS

| Year | Degree / Board                   | Institute                             | GPA / Marks(%) |
|------|----------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Electrical Engineering | Indian Institute of Technology, Delhi | 6.859          |
| 2015 | CBSE                             | Maa Bharti Sr Sec. School, KOTA       | 91%            |
| 2013 | CBSE                             | S. R. Public Sen. Sec. School, Kota   | 10/10          |

## QUALIFYING EXAMS

- Joint Entrance Examination (JEE) Advanced Rank: 151 (GE)

## SCHOLASTIC ACHIEVEMENTS

- KVPY Fellow** : Awarded prestigious Fellowship by Department of Science and Technology, Government of India(2015)
- NTSE Scholarship** : Awarded scholarship after **2 tier** merit based procedure by NCERT, Government of India (2013)
- National Standard Examination in Physics** : Awarded Certificate of Merit for featuring in the National **top 1%** (2015).
- Regional Mathematical Olympiad**: Selected for INMO, conducted by Indian Statistical Institute, Kolkata.(2014)
- International Mathematics Olympiad**: Secured **International rank 3** in IMO conducted by Science Olympiad Foundation.(2011-12)

## INTERNSHIPS

- DoubtNut, Gurugram** (May, 2018 - July, 2018) : *A multi lingual online learning platform for students providing video solutions in real time using AI technologies for image recognition and proprietary machine learning algorithms.*
  - Content creator: Created **950+** high-end video solutions and concept explainers using **WACOM** and **Screencast-O-matic**.
  - Mastered **ASCII** language and **MS-excel** to keep track of work progress and ensure that the content is mathematically correct.

## POSITIONS OF RESPONSIBILITY

- Secretary, Dance Club, BRCA (Apr, 2017 - Jan, 2018) :**
  - Elected** to lead a team of **13** ; Conducted **15+** competitive & non-competitive events at institute and national level.
  - Rendezvous 2017**-Spearheaded Pro-night Kaleidoscope;National Finale of dance competition with **300+** participants .
  - Systematically coordinated between infrastructure and security teams for managing logistics for **70+** teams involving **1500+** participants.
  - Collaborated with Camp RJ14 to conduct a free workshop at IIT, which saw participation from **10+** colleges and **250+** registrations.
  - Introduced **3 new events** (Belly Dance Battle, B-Boying Battle, Silent DJ)which eventually let to multifold increase in the participation.
  - Intra college**-Organised and managed **3** competitive events, several non-comp events, workshops & Institute Dance Production (IDP).
  - Restructured** Dance Club events showcasing **12** new dance genres : Launched a new league structure for the very first time.
- Managing Director, V-Defyn Dance Academy(Jan,2018-Present):**
  - Strategised logistics, executed scheduling of a team of **23** to deliver **20+** performances at National Level group dance competitions
  - Choreographed and performed a dance routine at IITD stage that reached about **2.7 Million** views on YouTube, as a part of V-Defyn
- Representative,Dance Club,BRCA(Apr,2016-Apr,2017):**
  - Led & choreographed & arranged logistics for practice of a **20+** member team, Runners-up Western Group Dance competition.
  - Conducted **5** dance workshops in the Hostel to promote a culture of Dance awareness at Satpura Hostel.
- Events Coordinator Speranza,BSW(Apr,2017-Sep,2017):**
  - Worked with a team of **50+** to conduct **30+** events spread across 3 days during BSW's annual fest Speranza'17
  - Spearheaded Jeopardy'17 by leading a team of **26** hostel representatives to conduct **5** rounds of Jeopardy'17 spread across 3 days.

## EXTRA CURRICULAR ACTIVITIES

- Dance at National and Institute level** : Delivered **30+** onstage performances with **8+ podium finishes**
  - **Winner** Choreography dance competition Rendezvous'16 North India's largest cultural extravaganza (2017)
  - **Winner** at DanceXplosion'17 and the title of **Most explosive performance** at BFAB'17 among **25 teams**. (2017)
  - **Winner** in National level group dance competition with **10+ teams** at Keshav keshav mahavidyalaya college
  - **Winner** in National level group dance competition with **10+ teams** at Institute of Home Economics
  - **Runner-up** in Western group dance competition for **2 consecutive years** among **30+ teams**, Rendezvous IIT-D(2016,2017)
  - **Runner-up** in Inter-IIT group dance competition, instrumental in securing **overall winner** title for IIT Delhi (2017)
  - **Runner-up** in National level group dance competition with **10+ Teams** at Janki Devi Memorial College.
  - **Runner-up** in National level group dance competition with **10+ Teams** at Satyawatil evening College.
  - **Runner-up** in National level group dance competition with **10+ Teams** at Maulana Azad Medical College.
  - Secured **podium finishes** among **13 teams** in Inter hostel group dance competition for **2 consecutive years** (2016,2017)
- Miscellaneous** : Awarded '**Outstanding Contribution to Cultural Activities**' for remarkable performance in various cultural clubs
  - PFC: **winner** in Stop motion video making competition(2015) and **runner-up** in dance video making competition(2018).
  - Dramatics: **winner** for **2 years** in Stage play competition(2016,2018) and **runner-up** in Stage play competition(2017).
  - FACC: **winner**, planned, designed and painted, Inter-Hostel Sigil Wall-Painting Competition, 2017-18, BRCA, IITD



# KOMARABATHINA ISAAC PRASA



## ACADEMIC DETAILS

| Year | Degree / Board                               | Institute                                       | GPA / Marks(%) |
|------|--|---|----------------|
| ---  | B.Tech in Electrical Engineering             | Indian Institute of Technology, Delhi           | 6.533          |
| 2015 | Board of Intermediate Education, A.P.        | Sri Chaitanya Junior Kalasala                   | 97.4/100       |
| 2013 | Board of Secondary Education, Andhra Pradesh | Dr. KKR's Gowtham Concept school, Machilipatnam | 9.7/10         |

## COURSES DONE

Data Structures And Algorithms, Macro Economics, Digital Electronics, Probability & Stochastic Pro., Analog Electronic Circuits, Computer Architecture, Embedded Systems, Machine Intelligence& Learning, Design And System Laboratory, Probability & Stochastic Pro.

## INTERNSHIPS

- Boston Scientific, Gurgoan (May, 2018 - July, 2018) : Blockchain solution for Active Release**
  - Developed an end to end minimally viable product to manage a key part of supply chain using Hyperledger Sawtooth
  - Complete with a Blockchain layer and a Web-Serving Layer

## PROJECTS

- Secure open-source Medical Records (Dr. Subrat Kar) (Aug, 2018 - ongoing) :**
  - A blockchain based immutable medical records solution which is in preliminary stage, as of August 5th
- Augmentation of organs of interest in Neck and head CT scans (Course Project - Dr.Jayadeva) (Feb 2018 - May 2018) :**
  - 3 Dimensional fully convolutional neural networks and Multi Atlas Segmentation were tried on a publicly available dataset
  - Success in the segmentation of organs varied considerably for different organs
- An Augmented reality game for Constraint-Induced Movement Therapy for children suffering from cerebral palsy (Dr. Tapan Gandhi) (May, 2017 - July, 2017) :**
  - We created a small game which translates a mundane exercise into an interesting one on screen
  - Developed in collaboration with AIIMS, Delhi using a Microsoft Kinect and Unity game engine
- Model of a taxi-aggregation service (Course Project - Dr.Amitabha Bagchi) (Nov 2016 - Nov 2016) :**
  - Developed a backbone to maintain a taxi service which uses Dijkstra's Algorithm to find the shortest distance path. (With vertices of the graph being the nearest pre-defined junctions)
- A small embedded system for counting the number of people inside a conference hall (Course Project- Dr. D. Ravi Kumar) (April 2016 - May 2016):**
  - Designed and built a system complete with a door frame to count the number of people using the door
  - It displays both number of people using it in either directions separately
  - It uses Infrared sensors to spot a person moving inside or outside

## TECHNICAL SKILLS

- Programming Languages:
  - Python, Java, C and very basic matlab and VHDL
- Embedded systems design and development.
- Blockchain core and application development
- Machine Learning models
- Web Designing and Server Side Scripting using Python-Django and little bootstrap
- Developing Distributed Applications on Docker and basic understanding of Kubernetes and Pivotal Container Service
- Very basic Game designing in Unity

## EXTRA CURRICULAR ACTIVITIES

- Completed 117 hours of NSS work
  - Participated in a campaign aimed at making our campus' transactions digital.
  - Taught to underprivileged kids under Lakshyam Teaching Project
- Gave a talk on Machine Learning and another on Blockchain at two engineering colleges near my home-town



# SOURABH VEERWAL



## ACADEMIC DETAILS

| Year | Degree / Board                   | Institute                              | GPA / Marks(%) |
|------|----------------------------------|--|----------------|
| ---  | B.Tech in Electrical Engineering | Indian Institute of Technology, Delhi  | 6.695          |
| 2015 | RBSE                             | Disha Delphi Global School, Kota       | 91.2           |
| 2013 | RBSE                             | Haritha International Secondary School | 81             |

## COURSES DONE

Engineering Mechanics, Linear Algebra & Diffe. Equa., Intro. To Computer Science, Intro. To Electrical Engg., Calculus, Electromagnetic Waves&qua.mec., Circuit Theory, Electromechanics, Signals And Systems, Physical Electronics, Minor Design Project - Vi, Digital Electronics, Engineering Electromagnetics, Control Engineering I, Electromechanics Laboratory, Probability & Stochastic Pro., Calculus, Power Electronics, Analog Electronic Circuits, Computer Architecture, Communication Engineering, Digital Signal Processing, Electrical & Electronic Instr., Power Engineering-i, Electric Drives, Thermal Sc. For Ele. Engineers, Principles Of Elect. Materials

## IIT DELHI THESIS

**Topic:** Gate Driver for Syn. Buck Converter with Normally On SC Switches

**Supervisor:** Ram Krishna Maheshwari

\*Description: A circuit that will translate the unipolar voltage produced by a standard gate driver to an adjustable bipolar voltage along with the bootstrap technique to drive normally on MOSFETs in a synchronous buck converter.

## PROJECTS

- **C-V Measurement of MOS-CAP (Bhaskar Mitra)** (May, 2017 - July, 2017) : C-V measurements of MOS-CAP at different frequencies. Interface coding in LAB-VIEW, pH sensing, Cadmium sensing, CV Hysteresis loop.

## QUALIFYING EXAMS

- **Joint Entrance Examination (JEE) Advanced Rank:** 80 (SC)
- **Joint Entrance Examination (JEE) Mains Rank:** 3128

## TECHNICAL SKILLS

- C++, Java, MATLAB, LAB-VIEW, CCS, Autodesk Inventor, LTSpice, PSI-M.

## EXTRA CURRICULAR ACTIVITIES

- Street Play in 1st and 2nd year for inter-hostel events.
- Part of Institute Athletics Team in 1st and 2nd year.(Long jump, Triple-jump, Hurdle race). Participated in races violently fir inter-hostel events.
- Carrom in inter-hostel.

## POSITIONS OF RESPONSIBILITY

- **Representative, Hindi Samiti** (April, 2016 - April, 2017) : Organized cultural events and quizzes at RDV. Organized events at Institute level for inter-hostel competitions.
- **Athletics Captain, BSA** (April, 2017 - April, 2018) : Hostel gets 4 golds, 2 silvers and 2 bronze. Overall Rank 2nd in the all History of Hostel in Athletics and Rank 4th for hostel in overall sports.
- **Vice-Captain Athletics, BSA** (April, 2016 - April, 2016) : Hostel gets 2 silver and 3 bronze.



# VUDALA SAI SUSRITH



## ACADEMIC DETAILS

| Year | Degree / Board                             | Institute  | GPA / Marks(%) |
|------|--|--|----------------|
| ---  | B.Tech in Electrical Engineering           | Indian Institute of Technology, Delhi            | 5.894          |
| 2015 | Board of Intermediate Education, Telangana | Sri Chaitanya Narayana Junior College, Hyderabad | 984/1000       |
| 2013 | SSC, Andhra Pradesh                        | Sri Chaitanya Techno School, Vijayawada          | 9.7/10         |

## QUALIFYING EXAMS

- Joint Entrance Examination (JEE) Advanced Rank: 316 (GE)

## COURSES DONE

Calculus, Linear Algebra & Diffe. Equa., Data Structures And Algorithms, Circuit Theory, Electromechanics, Signals And Systems, Physical Electronics, Macro Economics, Digital Electronics, Control Engineering I, Probability & Stochastic Pro., Power Electronics, Analog Electronic Circuits, Computer Architecture, Communication Engineering, Digital Signal Processing, Graph Algorithms, Principles Of Elect. Materials

## SCHOLASTIC ACHIEVEMENTS

### • NTSE Scholar:

- Recipient of National Talent Search Scholarship funded by CBSE

### • KVPY Scholar:

- Participated in the Vijyoshi camp organised by Kishore Vaigyanik Protsahan Yojana
- It was organised at IISc Bangalore and funded by Department of Science and Technology India.

### • Science Olympiads by IAPT (Indian Association of Physics Teachers):

- National top 1% in NSEJS (National standard examination in Junior Science)
- Statewise top 1% in NSEP (National standard examination in Physics) and NSEC.

## PROJECTS

### • 5G Antennas for space UAVs (Professor Amit Mehta):

(June, 2018 - )

- Designed 8 \* 8 array of a patch antenna using CST Studio
- Course Projects

### • Generating Spanning trees of a weighted Graph(Professor B S Panda):

(Mar, 2018 - Apr, 2018)

- Implemented a combinatorial algorithm to generate all spanning trees of a weighted graph in order of increasing cost

### • Array Adaptive Sensor Processing (Professor Lalan Kumar):

(Nov, 2017 - Dec, 2017)

- Implemented and compared MUSIC and WSF methods to estimate DOA by taking cellular phones as an example.

### • Real time filtering (Professor Lalan Kumar):

(Oct, 2017 - Nov, 2017)

- Designed low pass IIR and FIR filters in MATLAB to reduce white noise from an audio signal

### • Online Taxi Service (Professor Amithabha Bagchi):

(Oct, 2016 - Nov, 2016)

- Designed a replica of an online taxi service using graphs

- The taxi and the path to the destination are chosen according to Dijkstra's algorithm for shortest path.

### • Small Search Engine (Professor Amithabha Bagchi):

(Sep, 2016 - Oct, 2016)

- Designed a basic search engine using inverted index algorithm for a set of web pages using hash maps.

## TECHNICAL SKILLS

- PROGRAMMING LANGUAGES: C, C++, JAVA, PYTHON
- SOFTWARES: MATLAB, AUTODESK, CST Studio, QUARTUS, AZURE, CODEC
- HARDWARE: ARDUINO, RASPBERRY PI

## POSITIONS OF RESPONSIBILITY

### • Mentor, Student Mentorship Programme :

(Jun, 2017 - May, 2018)

- Organised orientation sessions for freshmen of batch 2017
- Provided guidance to 5 students through their freshmen year in different aspects of life

## EXTRA CURRICULAR ACTIVITIES

### • Activity Head at Tryst (Jan,2017 - Mar,2017)

- Organised technical workshops and seminars during IIT Delhi's technical fest Tryst
- Organised VR Lounge an event that brought together budding startups and VCs in the country.



# ISHAN TEWARI



## ACADEMIC DETAILS

| Year | Degree / Board                   | Institute                             | GPA / Marks(%) |
|------|----------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Electrical Engineering | Indian Institute of Technology, Delhi | 8.668          |
| 2014 | AISSCE, CBSE                     | Step By Step School, Noida            | 95.8           |
| 2012 | AISSE, CBSE                      | Step By Step School, Noida            | 9.8/10         |

## SCHOLASTIC ACHIEVEMENTS

- Student Exchange:** Selected as one of 2 students to study Telecom Systems at **IMT Atlantique** (*GPA: 3.9/4.0*) (2017)
- Charpak Scholarship:** Awarded by **Govt of France** to 15 student leaders from India, visiting as exchange students (2017)
- IITD Semester Merit Award:** Awarded for being in the **Top 7%** of a batch of over **800** students, after first year (2016)
- Graduate Record Examination (GRE):** Verbal Reasoning - 169, Quantitative Reasoning - 170 (*Score: 339 /340*) (2018)
- KVPY Scholar:** Selected for scholarship awarded by **Department of Science and Technology, Govt. of India** (2013)
- CBSE Merit Certificate:** Awarded for being in the **national top 0.1%** in the school certificate exams for English (2014)
- Minor Degree:** Completed 11.5 out of 20 credits that is required to be eligible for a minor in **Computer Science** (2018)

## INTERNSHIPS

- Nomura Research Institute | Automotive Strategy Consulting Division | Gurgaon** (May - July, 2018) : *Part of Cross-Cultural Team*
  - Identified and evaluated 3 expansion markets, 30+ machine/part suppliers in lightweighting/FCV space for a Japanese client
  - Owned a critical component of profitability analysis, developing heuristic, automating process, saving team 170+ man hours
  - Worked **on-site** at **client** office, liaising with client management to refine model and grow profitability by 4% in absolute terms
- Schneider Electric | Digital Engineering | Bengaluru** (May - July, 2017) : *Developed BLE mesh networking platform*
  - Optimized for **power, range and throughput**, in line with the latest specifications, using different discovery and flood models
  - Implemented a proof-of-concept scalable **Home Lighting solution** with optimal performance, shown at **IoT day** to management

*Offered a Letter of Recommendation for exemplary work done, earning commendation from GM - Digital Engineering*

## EXTRA CURRICULAR ACTIVITIES

- Quizzing, Debating and Literary:** Actively participate in flagship events of clubs, with multiple wins/podiums
  - **National** : Assisted IITD to **3rd** (2017) & **4th** place (2018), among **20** IITs, IIMs at Nihilanth, Inter-IIT-IIM Quiz fest
  - **Winner**, Murphy's Law, Tryst, IIT Delhi, a Business, Technology and Science Quiz with Pan-India participation (2018)
  - **Winner**, NSITMUN, NSIT, DU, Best Delegate in DISEC committee to develop and discuss policy on terrorism (2016)
  - **Runner Up**, BizTech, Delhi Technological University (DTU), a Business/Technology Quiz at their annual quiz fest (2018)
  - **Quizmaster**, BizQuizIt, Formulated and hosted a business and technology quiz at Parivartan, DMS, IIT Delhi (2018)
  - **Chair**, SBSMUN, Invited to chair committee with **30+** delegates on chemical/biological weapon warfare policy (2016)
  - **Institute** : Member, Steering Committee, Quizzing Club (2018-19), Hostel Representative, Quizzing Club (2016-17)
    - **Runner Up**, IIT Delhi QC League, auctioned as a member of a team from a student body of **800+** students (2018)
    - **Runner Up**, Physics/Astronomy Quiz, Kutub-Style Quiz (2018); **Runner Up**, Variety Quiz, League Quiz (2018)
    - **Runner Up**, Kapoor's Quiz, Inter-Hostel Cross-Year teams (2016); **Runner Up**, Potpourri, Freshers' Literary Quiz (2015)
    - **Quizmaster**, Lorem Ipsum, Created a General League Quiz (2017); **Quizmaster**, exQUIZit, a Business/Technology Quiz (2016)
- Case Studies:** Participated in multiple case competitions, developing a range of solutions, with multiple wins/podium finishes
  - **Winner**, OLA Mobility Challenge, E-Cell, IIT Bombay, Developed model for shared mobility in Tier 2 and 3 cities (2018)
  - **Runner Up**, Tryst Business Case Competition, IIT Delhi, Developed a financial plan for an Indian textile firm (2017)
- Squash:** Represented IIT Delhi at the national level as a member of the institute's squash team; Hostel Captain (2016-17)
  - **Winner**, Inter-Hostel General Championship (GC), Finished first out of 11 hostels, for the first time in hostel history (2017)
  - **Semi-Finalist**, Spardha, Annual national-level sports meet of IIT-BHU with **8+** teams participating from across India (2016)

## POSITIONS OF RESPONSIBILITY

- Overall Coordinator, Alumni Affairs and International Programmes (AAIP)** (April, 2018 - Present) :
 

*Managed a team of 40+ coordinators and representatives covering publicity, international relations, content and design*

  - Hosted the **Dalai Lama**, managing a team of **15+** volunteers, liaising with the Delhi Police and the alumni association
  - Implemented a new **buddy system**, revamping the **orientation** for **30+** exchange students from partner institutions
  - Liased with distinguished alumni globally to set up **scholarships**, enabling needy and meritorious students in their education
- Publicity Coordinator, Sportech** (January - March, 2018) : *Managed a team of 30+ journalists and photographers*
  - Published 4 in-depth newsletters and 8+ update posts, along with soundbytes from all stakeholders, across social media platforms
  - Implemented a three-tier **feedback mechanism** for submission, review and publishing of **200+** reports and award hours
  - Launched events such as online quizzes to increase **viewer engagement** and the reach of the fest and publicise sponsors
- Journalist, Board For Student Publications (BSP)** (April, 2016 - April, 2017) : *Formulated 2 newsletters / 3 magazines*
  - Conceptualized **Net conference**, a macro business simulation with **250+** delegates at Literati '16; Replicated at SRCC



# AASHISH BHORSE



## ACADEMIC DETAILS

| Year | Degree / Board  | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech in Electrical Engineering (Power and Automation) | Indian Institute of Technology, Delhi | 5.852          |
| 2014 | Board of Secondary Education, Madhya Pradesh            | Jagrati Hr.Sec.School, Bhopal         | 78.6 %         |
| 2012 | Board of Secondary Education, Madhya Pradesh            | T.R.S M Hr. Sec. School, Sarni, Betul | 70.33%         |

## PROJECTS

- **A Small Search Engine (Professor Amitabha Bagchi)** (Sep., 2016 - Oct., 2016) : **Course Project**
  - Built an **inverted-index** data structure for given webpages; defined a scoring function to return pages in order of relevance
  - Implemented **hash map** and **AVL** trees for searching single-word and compound search queries through the webpages
- **Mobile Phone Tracking System (Professor Amitabha Bagchi)** (Aug., 2016 - Sep., 2016) : **Course Project**
  - Designed a data structure that helps to solve a simplified version of the **Mobile Phone Tracking** problem, using **Tree**
  - Nodes serve as base stations & a base stations has several users. Designed an algorithm to find shortest path between two users
- **A Mini Taxi Aggregator Service(Professor Amitabha Bagchi)** (Oct., 2016 - Nov., 2016) : **Course Project**
  - Built and designed a simple data structure behind taxi aggregator services like Uber and Ola using **weighted graphs**
  - Implemented **Dijkstra's shortest path** algorithm to allot paths to taxis from a particular source to a particular destination
- **Database Management System (Professor Sayan Ranu)** (March, 2018 - April, 2018) : **Course Project**
  - Queries like batting average, country batting average, bowling average, captainkeeper and won the match, player scored century but lost the match, venue where the team bowling first has won the match in decreasing order etc.
  - Implemented ER relationship diagram for a given IPL dataset which contains 'csv' files. Queries are retrieved using JDBC
- **DC Motor Control (Professor G. Bhuvaneshwari)** (March, 2018 - May, 2018) : **Course Project**
  - Studied speed and torque Characteristics of Three-Phase Semi-Controlled Converter Fed DC series Motor Drive
  - Plotted open circuit characteristics at rated conditions of machine and analyzed using MATLAB Simulink
  
- **Speed Control of Electric Vehicles (Professor Sukumar Mishra)** (May, 2018 - Jun, 2018) :
  - Employed class C chopper as DC-DC converter to control the speed of BLDC motor of electric vehicles and implemented in **simulink**
  - Varied Duty Ratio of high frequency MOSFETs, used as switches of DC-DC Converter to control the speed of BLDC Motor
- **Synchronization of Grid Connected Single Phase PV Inverter (Professor Sukumar Mishra)** (Jun, 2018 - Present):
  - Synchronized the grid with single phase Photovoltaics(PV) inverter without using **Phase Locked Loop** current control loop
  - Proposed new methodology to track the amplitude and phase of grid voltage in efficient time and implemented in MatLab/Simulink
  - Implemented mathematical model to track amplitude by delaying the grid voltage; the phase is tracked using **XOR** logical operations

## POSITIONS OF RESPONSIBILITY

- **Hockey Captain , BSA** (April, 2017 - April, 2018) :
  - Led a team of **16 players** to secure **2nd** Position in the Inter Hostel Hockey tournament among **11** participating Hostels
  - Increased Freshers and PG students participation thus improving the hockey culture of hostel and securing podium positions
  - Made significant contribution in winning the **General Championship** with top four finishes for three consecutive years
- **Sports Event Coordinator in Mahsheed'18, BHM** (March, 2018 - April, 2018) :
  - Led a team to manage registrations and infrastructure for all sports events; ensured proper allocation of time and resources
  - Recognized for special contribution in upbringing the Sports temperament of hostel by ensuring participation from all sections

## EXTRA CURRICULAR ACTIVITIES

- **Inter College Level :**
  - **Semifinalist** with Institute Hockey Team, **52nd Inter-IIT** Sports Meet held at IIT Madras [2017]
  - Winner, **Gold Medal** with Institute Hockey Team, **Sangram**, annual sports festival of IIT Roorkee [2018]
  - Winner, **Gold Medal** with Institute Hockey Team, **Sportech**, annual sports festival of IIT Delhi [2018]
  - Winner, **Silver Medal** with Institute Hockey Team, **BOSM**, annual sports festival of BITS Pilani [2017]
  - Winner, **Bronze Medal** with Institute Hockey Team, **Udghosh**, annual sports festival of IIT Kanpur [2017]
  - Winner, **Bronze Medal** with Institute Hockey Team, **Sportech**, annual sports festival of IIT Delhi [2017]
- **Institute Level** : Represented hostel across 3 disciplines securing many podium finishes in BSA tournaments
  - Winner, **Silver** and **Bronze** in Inter-Hostel **Hockey** Championship for 2 Consecutive years
  - Winner, **2 Bronze** in Inter Hostel **Water-Polo** Championship for 2 consecutive years
  - Winner, **Silver** in Inter Hostel **Javelin Throw**, Inter Hostel **Athletics** Championship [2018]

**Awarded Institute Colours BSA** for outstanding performance in Hockey at **52nd Inter IIT** Sports Meet at IIT Madras

## TECHNICAL SKILLS

- **Programming Languages:** C, Java, Python, SQL; **Software:** Autodesk Inventor, PSIM, MATLAB, Dip Trace, Code Composer Studio



# AISHWARY SRIVASTAVA



## ACADEMIC DETAILS

| Year | Degree / Board  | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech in Electrical Engineering (Power and Automation) | Indian Institute of Technology, Delhi | 6.432          |
| 2015 | CBSE  | DAV Public School, Kota               | 93.8%          |
| 2013 | CBSE  | HAL School Korwa, Amethi              | 10             |

## SCHOLASTIC ACHIEVEMENTS

- **Int'l Symposium on Optomechatronic Technology (ISOT), Tainan, Taiwan:** Invited to present research paper (2017)
- **Global Engg. Leadership Scholar:** Among the 28 interns selected worldwide for summer intern at NTHU, Taiwan (2017)
- **Int'l Olympiad of Science:** Secured All India Rank 3 (2015); Qualified for **Indian National Chemistry Olympiad** (2015)
- **Kishore Vaigyanik Protsahan Yojana (KVPY):** Conferred fellowship through 2-tier process by DST, Govt. of India (2015)
- **National Talent Search Exam (NTSE):** Scholarship awarded to *Top 1000 students across India* by NCERT, Delhi (2011)
  - Participated in 5-day long Nurturance Programme held at IIT Roorkee organised by NCERT, Delhi
- **National Std. Exams:** NSEP (Physics): Ranked in *National Top 1%*; NSEA (Astronomy): Ranked in State top 1% (2014)
- **NSTSE:** Secured All India Ranks **15, 20 & 13** (2012-15); **NSO:** Secured All India Rank **15**; Ranked **2nd** in State (2012)
- **Max New York Life Insurance IGENIUS Scholarship:** Won **3rd** prize for excelling in academics & co-curriculars (2010)

## INTERNSHIPS

- **Real-Time Experimental Lab, University of Alberta, Canada** (May, '18 - July, '18): *Supervisor: Prof. Venkata Dinavahi*
  - Modeled equations relating fundamental and standard model of sync. machine resulting in **100% match** in output
  - Wrote MATLAB code for synchronous machine later to be used for high speed simulation on FPGA using Vivado HLS
  - Implemented the existing Simulink STATCOM model on PSCAD in order to power the PSCAD based HVDC grid model
  - Awarded Letter of Recommendation for excellent performance in lab and constant positive appraisals by team*
- **MicroTech Lab, NTHU, Taiwan** (May, '17 - July, '17) : *Supervisor: Dr. Wei-Chih Wang, University of Washington*
  - Programmed FPGA controller using Verilog HDL for Potential MEMS based 2-D Scanning Image Acquisition System
  - Successfully implemented the proposed 2-D Scanning Image Display model involving Analog & Digital circuit designing
  - Conference poster** presented at 18th Int'l Symposium on Optomechatronic Technology, 2017 held at Tainan, Taiwan
  - Awarded Letter of Recommendation for excellent performance and outstanding contribution to the project*

## PROJECTS

- **Vibration based Diagnostics of Rotating Machinery** (Dec., 2016 - Present) *Guide(s): Prof. A K Darpe & Prof. Subrat Kar*
  - Leading a team of **4** to develop a low cost health monitoring system for early stage fault detection in rotating machinery

## EXTRA CURRICULAR ACTIVITIES

- **Sanitation Improvement Project** conducted by **Rama Krishna Mission, Delhi** (May, 2016-June, 2016)
  - Spent **134 hours over 20 days** at Bhati Mines Village, Delhi surveying households to identify needy ones for sanitation facility construction
  - Generated Google forms, spreadsheets and *online dashboards* to monitor procurement, supplies and work progress
  - Translated the toilet construction guidelines manual from English to Hindi in order for it to be understood by masons
- **Member, Jwalamukhi Hostel Maintenance Committee** (July, '16-April, '17):
  - Improved *accountability & public relations* of Maintenance Team by connecting the hostel residents online
  - Made the hostel maintenance redressal system transparent by implementing *online tracking* of complaints
  - Recognized & Awarded for significant contribution to hostel maintenance & management activities*
- **Activity Head, Hospitality, Rendezvous'17** (March, 2017-November, 2017)
  - Managed the distribution of meals and refreshments for celebrities, participants and organizing team during the fest.
- **Volunteer, Green Warrior, National Service Scheme, IIT Delhi** (January, 2016-April, 2016):
  - Minimized the food wastage in hostels by implementing the *food wastage chart* in hostel mess to monitor the wastage
  - Helped in organizing various hostel awareness sessions to sensitize people about food, electricity and water wastage
- **Sports Aquatics:** Secured **3rd** position for two consecutive years in Inter-Hostel Water Polo Championship (2016, 2017)
- **Cultural Pursuits:** **3rd** position among 13 hostels in *Sahityik Prashnottari* organized by Hindi Samiti, BRCA (2017)

## POSITIONS OF RESPONSIBILITY

- **Executive – Entrepreneurship & Development Cell (eDC), IIT Delhi (2016-17)** (August, 2016-April, 2017)
  - Invited various eminent speakers (Venture Capitalists, Entrepreneurs, CEOs) for panel talks and guest lectures
  - Member, Organizing team e-Summit 2017: Involved in area dealing with *Corporate & Industrial Relations*
- **Vice Captain, Table Tennis (Jwalamukhi Hostel)** (April, 2016 - March, 2017)
  - Organized the very first *one of its own kind* Intra-hostel TT competition to churn out the best players to form hostel team
  - Managed hostel TT inventory & budget; Co-led the team to **3rd** position in Inter-hostel General Championship (2016-17)



# HUNNEY KOTIYA



## ACADEMIC DETAILS

| Year | Degree / Board  | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech in Electrical Engineering (Power and Automation) | Indian Institute of Technology, Delhi | 5.959          |
| 2015 | Central Board of Secondary Education                    | St. Paul's Sr. Sec. School, Jodhpur   | 92.4           |
| 2013 | Central Board of Secondary Education                    | St. Paul's Sr. Sec. School, Jodhpur   | 9.8            |

## INTERNSHIPS

- **Defence Research and Development Organisation (DRDO), Jodhpur** (May, 2018 - July, 2018): *VHDL and its Application*
  - Analyzed the feasibility of using vhsc programming language for **designing** and **modelling** of electronic systems at DRDO
  - Designed and developed the code for **Full Adder** using half adders, analyzed the **structural** and **data flow** view
  - Proposed a model of **automated lighting system** in the conference room to **reduce power consumption**
- **TATA Power Delhi Distribution Ltd. (TPDDL), New Delhi** (May, 2017 - July, 2017):
   
*Protection and Testing of Electrical Equipmnets in 11KV Distribution Network*
  - Installation of the **Vamp-57** relay for 1000kVA distribution transformer, being the most advance relay at TPDDL
  - Analyzed the transmission network of **900+** substations to **enhance the effectivity of tripping analysis**
  - Visited **10+** substations and R&D workshop to gain practical experience.

## PROJECTS

- **Demonetization in India and Its Effects (Professor V. Upadhayay)** (Dec, 2016 - Jan, 2017):
  - Diagnosed the effects of demonetization on various sectors of **Indian economy**, specifically on farming sector
  - Demonstrated the **benefits and the shortcomings** of demonetization on the lobbyist sector of Indian economy
- **Mobile Phone Tracking System (Professor Amitabha Bagchi)** (July, 2016 - Dec, 2016) :
  - Implementation of a real life call exchange system, using **multi-threading** in java
  - Implementation tracing of the call path between two base stations using **tree data structure**
  - Implementation of real life mobile features like switching on/off of a mobile and keeping track of its tower
- **Taxi Aggregation Service (Professor Amitabha Bagchi)** (July, 2016 - Dec, 2016) :
  - Keeping track of all the taxis in the area using **graph data structure**
  - Implementation of **Dijkstra's algorithm** for providing a taxi which is nearest and cheapest to customer's request

## POSITIONS OF RESPONSIBILITY

- **Creative Coordinator, Speranza** (April, 2017 - September, 2017) : *Annual Youth Festival of IIT Delhi*
  - Headed a team of **26 Representatives** and \*10 Activity Heads for the Annual Youth Festival of IIT Delhi, Speranza'17
  - Conceptualized and designed the website and other creative contents including **50+** posters, **10+** banners and **5+** videos
  - Developed the strategic contents for Publicity and Marketing Team resulting in the **increase in outreach and financials**
  - Successfully coordinated with the Decoration Team to provide the **logistics** and **digitally developed creatives**
- **Representative, Photography and Films Club, BRCA** (April, 2016 - March, 2017) : *Elected to foster club's spirit in hostel*
  - Coordinated **Inter College Photography Competitions** during Rendezvous and inter-hostel club events throughout the year
  - Conceptualized **Intra-Kara BRCA League** for the first time in hostel marking participation of **100+** residents
  - Organised several workshops and photo-walks to bring the club from a non-existent entity to a **well-recognized club**
- **Hostel Basketball Captain, BSA** (April, 2017 - March, 2018) : *Mentored & coached hostel team to represent in Inter-Hostel*
  - Developed and maintained an inventory of sports equipment increasing the accessibility of equipment to the residents
  - Prepared the sports budget optimizing fund allocation and incorporating needs of the players
  - Held trials for **100+** incoming UG and PG freshers for institute and hostel Basketball team

## EXTRA CURRICULAR ACTIVITIES

- **Photography and Films:** Proficient in 5 industry standard software; Created 100+ graphics till date
  - **Winner**, Inter Hostel *Dance Video Making*, among 13 competing hostels, *scriptwriter and director* (2017)
  - **Runner-up**, Inter Hostel *Movie Making*, among 13 competing hostels, *cinematographer and screenwriter* (2015)
  - **Winner**, 1st position, Intra Hostel *Photography Competition* among **50+** contesting freshers (2015)
- **Basket Ball:** Represented hostel basketball team for a span of three years securing gold and silver medals
  - Winner, **Gold**, 1st position, Inter Hostel *Basketball Tournament*, among 11 contesting teams (2016)
  - Winner, **Silver**, 2nd position, Inter Hostel *Basketball Tournament*, among 11 contesting teams (2017)
- **Hostel Maintenance:** Actively participated in hostel welfare activities for consecutive three years
  - Idealized Sustainable Kara initiative '**'CARE - Conserve Act Restore Environment'** to conserve water and electricity in hostel
  - Publicised '*Aurum - the golden jubilee celebration*', managed **10+** events including interaction with **50+** alumni
- **Other Interests:** playing pool and snooker, listening to music, travelling



# NISHANT KUMAR SHARMA



## ACADEMIC DETAILS

| Year | Degree / Board  | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech in Electrical Engineering (Power and Automation) | Indian Institute of Technology, Delhi | 6.724          |
| 2014 | Central Board of Secondary Education                    | Arcadia Academy Sr. Sec. School       | 91.4 %         |
| 2012 | Central Board of Secondary Education                    | Kendriya Vidyalaya Bharatpur          | 10/10          |

## QUALIFYING EXAMS

- Joint Entrance Examination (JEE) Advanced Rank: 767 (GE)

## COURSES DONE

Calculus, Linear Algebra & Diffe. Equa., Data Structures And Algorithms, Signals And Systems, Digital Electronics, Control Engineering I, Power Electr. & Energy Devices, Introduction To Economics, Probability & Stochastic Pro., Analog Electronic Circuits, Computer Architecture, Embedded Systems, Design And System Laboratory

## PROJECTS

- Plantar Pressure Measurement System (Prof. Tapan Kumar Gandhi)** (Dec 2017 - Present) :
  - Built up a **Force Sensing** Resistor based framework with Sensor matrix controlled using **conditional electronics**
  - Conceptualized a Medical Utility Commercial Product, a **portable medical device** for detection and diagnosis of foot ulcers
  - Conducted experiments on the device to **calibrate** and observe the various performance parameter of a sensor
    - Performed **viscoelastic** and **dynamic response** modeling test to demonstrate the **creep** and dynamic behavior of the sensor
  - Used the **MATLAB** to obtain the raw output data of the experiments in order to verify it with the standard outcomes
- Production and Optimization of Renewable Energy (Prof. S M K Rahman)** (May 2018 - July 2018) :
  - Contemplated techniques to exploit the **potential** of **Highway networks** as **self-sustainable systems** as per energy requirement
  - Proposed an idea to **maximize** the simultaneous **harvesting** of the solar and wind energy on expressways
- Taxi Service System (Prof. Amitabha Bagchi)** (Jul 2016 - Nov 2016) :
  - Simulated a road network on a weighted graph that allows the user to hail cabs based on the closest one available
  - Implemented **Dijkstra's algorithm** to identify the nearest taxis and best routes based on taxi availability
- Mobile Phone Tracking System (Prof. Amitabha Bagchi)** (July 2016 - Nov 2016) :
  - Programmed a **prototype** of Mobile phone tracking system with addition and delete of base exchanges in the network
  - Route call tracing** of one phone to another phone from their perspective base stations using **tree-based** structure
- Semi-controlled Dual Converter fed DC Motor Drive (Prof. G Bhuvaneshwari)** (Jan 2018 - May 2018) :
  - Used the **MATLAB** to design and implement the **commercially unavailable** semi-controlled dual converter fed DC Motor
  - Used the simulation results in order to **analyze** the **characteristics** of the dual converter model with respect to the **firing angle**

## TECHNICAL SKILLS

- Programming Languages:** C++, C, Java, VHDL
- Software:** Autodesk Inventor, MATLAB, Arduino, LTSpice(Basic), Quartus, Adobe Photoshop

## POSITIONS OF RESPONSIBILITY

- Mentor, SMP IIT Delhi** (April 2017 - April 2018) :
  - Guided 6 first year students to ensure smooth transition into IIT Delhi, ensuring the comfort of the incoming
  - Assisted the coordinators in smooth functioning of exhibits, activities and sessions related to academics and mentorship
  - Performed activities with the mentees under the guidance of professional counsellors to enhance interaction and self awareness
  - Along with the SMP coordinators, took up the problems of the mentees at appropriate forums

## EXTRA CURRICULAR ACTIVITIES

- House Working Committee** (April 2017 - Present) :
  - Actively engaged in hostel meetings for the efficient management and assisted the hostel to secure the third position in BHM
  - Conceptualized and Established the idea of ISC room within the hostel incorporating facilities like Foosball, Darts
  - Contributed in organizing the 'Aurum' the golden jubilee celebration of the hostel
- Maintenance and Mess Committee** (April 2016 - April 2017) :
  - Idealized the Sustainable Kara initiative "CARE - Conserve Act Restore Environment" to conserve water and electricity
  - Negotiated and coordinated with supply chain magnate and dealers, the procured quality material at minimum prices
- Dramatics** : Acted in Inter Hostel Street Play 'Gunaho Ka Karkhana' (2015) and Scripted the Inter Hostel Mime Act (2016)
- Other Interests** : Reading Crime and Mystery Books, Watching TV Series, Indian Politics and History, Gaming



# PIYUSH BARUPAL



## ACADEMIC DETAILS

| Year | Degree / Board  | Institute   | GPA / Marks(%) |
|------|---|---|----------------|
| ---  | B.Tech in Electrical Engineering (Power and Automation)<br>CBSE | Indian Institute of Technology, Delhi<br>Shiv Jyoti Sr. Sec. School,<br>Rathkankara, Kota | 6.018<br>86.2% |
| 2015 | CBSE  | Subodh Public School, Jaipur  | 10/10          |
| 2013 |   |   |                |

## COURSES DONE

Intro. To Computer Science, Intro. To Electrical Engg., Calculus, Linear Algebra & Diffe. Equa., Circuit Theory, Electromechanics, Signals And Systems, Digital Electronics, Control Engineering I, Power Electr. & Energy Devices, Electromechanics Laboratory, Introduction To Psychology, Probability & Stochastic Pro., Power Electronics, Analog Electronic Circuits, Computer Architecture, Digital Signal Processing, Control Engineering Laboratory, Social And Political Philosoph, Power Engineering-i, Electric Drives, Embedded Systems, Power Electronics Laboratory, Design And System Laboratory

## TECHNICAL SKILLS

- Programming Languages:** Java, Python, C++, C ; **Softwares:** Eagle(PCB Design Software), MATLAB, Eclipse

## PROJECTS

- Effects and aftermath of Demonetization- Prof. V. Upadhyaya (Dec,2016 - Jan, 2017)**

- Examined the **advantages** and **shortcomings** of demonetization, its viability, effects and further scope in the economy.
- Performed analysis of the monetary cost of demonetization and its effects, current and future, on the stock markets.

- Smart Foot - Prof. Tapan Gandhi (Dec.2017 - Jan.2017)**

- Analysed the schematics and thereafter gathered all the necessary components necessary for building the circuit board.
- Drew the schematics, found the required components designed the Printed Circuit Board, using **Eagle CAD software**.

- Smart Bed - Prof. Tapan Gandhi (May,2017 - July 2017)**

- Collaborated with Dr. Alok(Irene Hospital) in identifying the issues associated with **sleep apnoea** and related disorders.
- Identified all the individual components that would be necessary for building the Smart bed **without any intrusion**.

- Taxi Aggregator Service** (Prof. Amitabha Bagchi) -Data Structures:

- Made a Java program to select the nearest available taxi using **Dijkstra algorithm** with taxi's positions simulated in virtual time.

- Self- Profiting Multi threaded Real Time Stock Exchange**

- Used multiple threads and implemented real time queuing up of order of Stocks. Matched the Buy/Sell commands and generated profits for the stock exchange by using a **greedy algorithm** to maximize the profit.

## EXTRA CURRICULAR ACTIVITIES

- Activity Head, Rendezvous(May,2017 - October,2017)**

- Planned the ideas to increase the popularity of the fest, both online and offline.
- Assisted in **writing** and **making content** for online publicity.
- **Facilitated the management** of all the people who visited.
- Managed the Campus Ambassador Program to increase online publicity.

- Civic and Social Service - Humanity Foundation, Delhi(Dec. 2017 - Jan. 2017)**

- Recording audio lectures in history, physics and mathematics for the visually challenged students residing there.
- Managing the organisation's office, getting govt. registration and helping them get necessary economic support.

- Dramatics Club**

- Member of the dramatics team that represented the hostel in Inter-Hostel dramatics competition, 2015

- Photography and Films Club**

- Acted, edited and Finished in the second place in a Video making competition held amongst first year students in 2015

- Literary Club**

- member of the team represented the hostel in various Inter-Hostel competitive and Non-Competitive events .
- Held literary practices for 40+ freshers, incentivizing them towards the club and preparing them for club events.



# SACHIN KUMAWAT



## ACADEMIC DETAILS

| Year | Degree / Board  | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech in Electrical Engineering (Power and Automation) | Indian Institute of Technology, Delhi | 7.035          |
| 2014 | CBSE  | BSN Academy                           | 79.8%          |
| 2012 | CBSE  | Shiv Jyoti Convent School             | 8.6/10         |

## SCHOLASTIC ACHIEVEMENTS

- Secured **58th rank in the state** and achieved **518th Olympiad rank** in level 2 of **International Olympiad of Science('13)**.
- Secured **37th rank in the state** and achieved **288th Olympiad rank** in level 2 of **International Olympiad of Mathematics('13)**.

## INTERNSHIPS

- Xerox Research India, New Delhi** (May 2016-July 2016): *Project run by goEd Technologies Pvt. Ltd.* an e-education platform
  - Repass program, Head coordinated a team of 100 members to conceptualize comprehensive content for deliverance in Bihar, strengthening a **social cause of accessible education** for poor; Provided administrative assistance in the management of interns.
  - NEET2 Program, Organized and executed a plan to increase the outreach of the internship program in all colleges. campuses of Delhi covering around 500 students; Used **Landing page and direct marketing** to increase product sales.
  - TutorSpace Program, Handling big-data and analysis in company's flagship initiative in **MOOC(Mass On-line Open Course)** education; Used **Canvas Instructure** to manage the content of 100 members with editing and rendering. Received **Letter of recommendation** for excellent internship work, administrative assistance and business development.
- Coin Delta, Pune** (May 2018 - July 2018): Worked as a **business developer** in a cryptocurrency exchange of India
  - Promoted the first ever **maker-taker** concept in the digital asset in Indian exchange among traders by personally meeting them.
  - Spearheaded a team of 15 to work on **document verification** of around 1000 traders per day to safeguard all legal transactions.
  - Lead a team of 10 to strategize and implement **multi-dimensional publicity** campaign for increasing the outreach of the company. Received **Letter of recommendation** from Chief Business Developer for exemplary performance during internship.

## EXTRA CURRICULAR ACTIVITIES

- Robotics Club:** Represented IIT Delhi in Techfest IIT Bombay(2015) and was positioned amidst top 7 over 250 participating teams.
  - Worked in a team of 4 to manufacture an image processing Robot with a **gearbox mechanism** to pick and run a block.
  - Designed a bot which solves the maze of geometric shapes to find its path and **positioned among the top 7** in Techfest(2015).
- Institute Events:** Actively **represented hostel** in the Inter hostel events of Dramatics and PFC club for 3 consecutive years
  - **Winner**, Acted in an Inter-hostel street play(15') on topic "Union of India vs Pet" to raise the issue of hunger in India.
  - **Winner**, Acted and Directed in an Inter-hostel street play(17') on the topic "Shama Virasya Bhushnam" on forgiveness.
  - **First runner-up**, Directed and Shot in an Inter Hostel Music Video(17') "Depression" to raise the issue of depression.
  - **Second runner-up**, Actively involved in arrangements of **BHM Stalls(16')** on the idea *How blind people experience the world*.
  - Performed successfully a stage play in **rendezvous('16)** in front of the large audience to be celebrated with a standing ovation.
- Retake Entertainment:** Worked in a team to 15 in an international youtube channel having **6600 subscribers** worldwide.
  - Secured **Title Sponsorship** from **Doggy Style restaurant** by strategising freshers-targeted campaigns in the campus.
  - Organized first ever **freshers orientation and workshops** in the campus with the *theme of write, shoot, edit and repeat*.
  - Organised the annual **freshers welcome orientation stall**. Host the stall beside managing activities for incoming 800 freshers.
- House Working Committee:** Conducted regular meetings regarding maintenance, sports, mess and culture.
  - Assembled **digital notice board** for regular updates of offers, meetings & events; Managed **on-line complain forum**.
  - Resolved **food waste problem** by analyzing consumption; Proposed **biometric attendance** in mess for better accountability.
  - Conceptualized '**Ban on Nil Plastic**' clean environment drive and raised significant issues before IITD administration.
- COPMIN Member:** Ensured that there is no such activities of **ragging and misbehavior** in the campus premises with freshers.
- Organising Team Member:** Actively contributed to the organization and execution of hostel fest *Ortus* and *House day*.
- Participated in a one day project based training program on **Ornithopter** organised by **Skyfi labs** in collaboration with IITD.

## POSITIONS OF RESPONSIBILITY

- Design Coordinator, OpenHouse IITD;** (March 2017 - May 2017): An annual innovative projects exhibition festival .
  - Managed the **designing and printing** of t-shirts, all project posters and all certificates which led to a footfall of 6000.
  - Designed a **theme and logo** for the fest which was used in all visual media such as website, posters and certificates.
- MobileApp Coordinator, OpenHouse IITD** (March 2018 - May 2018): An annual innovative projects exhibition festival .
  - Led a 2-tier team to develop a **dynamic application** using restful APIs by using *volley android Library* in Android Studio.
  - Imparted all the information on *all projects, events and team in the app itself* to ease the contact process for all the visitors.
- Executive, Electrical Engineering Society** (July 2016 - May 2017):
  - Assisted in **coordinating, Formulated content and structure** for 20 events for Electrical students with a footfall of 600.
  - Designed **12 event posters** to publicize the event like *interactive sessions, workshops* in about 250 colleges in Delhi.



# SANGAM BHARTI



## ACADEMIC DETAILS

| Year | Degree / Board  | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech in Electrical Engineering (Power and Automation) | Indian Institute of Technology, Delhi | 6.258          |
| 2014 | ISC   | Raja Rammohan Roy Academy             | 83%            |
| 2012 | ISCE  | Raja Rammohan Roy Academy             | 86.6%          |

## INTERNSHIPS

- **Coin Delta, Pune** (May, 2018 - July, 2018) : Worked as a Website developer in a crypto currency exchange of India
    - Developed Website interface(front-end database) using **Materialize CSS** and **Google Material** guidelines.
    - Optimized the website and fixed the bugs for all the browsers and multimedia platform.
    - Promoted the first ever maker-taker concept in digital asset in Indian exchange among traders by personally meeting them.
    - Spearheaded a team of 15 to work on document verification of around 1000 traders per day to safeguard all legal transactions.
    - Lead a team of 10 to strategize and implement multi-dimensional publicity campaign for increasing the outreach of the company.
- Received Letter of recommendation from Chief Business Developer for exemplary performance during internship.

## PROJECTS

- **A taxi aggregator service (Prof. Amitabha Bagchi)** (July, 2016 - Nov, 2016):Course Project
  - Implemented Dijkstra's algorithm on city-wide taxi network; Found fastest route available during fixed intervals of time.
  - Introduced the concept of a taxi to determine the distance from all available taxi's to the customer's location
- **Mobile tracking System (Pro. Amitabh Bagchi)** (July, 2018 - Nov, 2018):Course Project
  - solved the fundamental problem of cellular networks by using trees; created a simplified version of mobile tracking system

## TECHNICAL SKILLS

- Java,C++, HTML, CSS, JavaScript, AngularJS, PHP, MYSQL.
- Autodesk Inventor, Solidworks, Arduino, Adobe Photoshop, Eclipse

## EXTRA CURRICULAR ACTIVITIES

- Awarded **Outstanding contribution to Cultural Activities**, 2018 for improving the hostels culture in music and dramatics.
- **Dramatics**: Secured podium positions in dramatics events at institute & hostel level in past 3 years
  - **Winner** Acted and Directed the Inter-Hostel street play 2015 "Union of India Vs pet" to raise the issue of hunger in India
  - **Winner** Acted, Directed and composed music for Inter-Hostel play 2017 "Shama Virasya Bhusnam" over forgiveness
  - Awarded **Best Musical Play** for original music and parody composition for the same play; was given special a mention
  - **Winner** Acted and composed original music for Rendezvous Inter College street play competition 2016 raising the awareness over Orphan Adoption
  - **1st Runner Up** Acted and Directed in street play competition at Inter IIT Cultural meet 2017 held in IIT Kanpur
  - Inter IIT Cultural Meet 2017 - Overall First Position
- **Retake Entertainment**: Worked in a team of 15 in an international youtube channel having 6600 subscribers worldwide.
  - Secured Title Sponsorship from Doggy Style restaurant by strategising freshers-targeted campaigns in the campus.
  - Organized first ever freshers orientation and workshops in the campus with the theme of write, shoot, edit and repeat.
  - Organised the annual freshers welcome orientation stall. Host the stall beside managing activities for incoming 800 freshers.
  - Composed original music and did playback singing for two videos "Iust aajkal" and "happie ending".
  - created content and acted as a lead for the video "Sorry" for Indian Road Safety Campaign under government of Delhi.
- **Music**: Performed as a Vocalist at various events as a member of Music Club
  - **Director and Lead Vocalist**, Eastern Group Song Competition, Rendezvous 2017
  - **Director and Lead Vocalist**, OAT performance in Rendezvous, 2017
  - **1st runner Up** in Intra College Eastern music Competition, Mehfil

## POSITIONS OF RESPONSIBILITY

- **Website Coordinator, OpenHouse**, 2018:
  - Designed, developed and maintained the website for openhouse'18
  - Developed back-end data base from scratch to fully automated poster submission platform using PHP and MySQL
  - Created a entirely new website with improved UI using AngularJS and Angular Material and Google Material Guidelines
  - Responsible for handling online visitors registrations data base and online project submissions through online portal
  - Maintained and managed content as well as updated the entire website frequently according to the needs
- **Director, Mridang-Indian Music Society, Music Club** (May, 2017-May, 2018)
  - Pioneered conduction of weekly music sessions for 20 vocalists to promote music culture among music enthusiasts
  - Directed the composition and performance in Eastern Group Song Competition, Rendezvous'17 in Raag Ahir-Bhairav
- **COPMIN member**, (2018- 2019): Ensured that there is no such activities of ragging and misbehavior in the campus premises with freshers



# PRADEEP KUMAR



## ACADEMIC DETAILS

| Year | Degree / Board  | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech in Electrical Engineering (Power and Automation) | Indian Institute of Technology, Delhi | 7.269          |
| 2014 | Board of High and Intermediate Education U.P.           | INTER COLLEGE SADAKPUR                | 83.4%          |
| 2012 | Board of High and Intermediate Education U.P.           | INTER COLLEGE SADAKPUR                | 80%            |

## IIT DELHI THESIS

**A Gate Driver for Synchronous Buck Converter with Normally On Semiconductor Switches**, Dr. R. Maheshwari

- **Reviewing** articles and journals on Gate driver design
- **Designing** a circuit with **Bootstrap technique** that would translate the Uni-polar voltage produced by a standard gate driver to Bi-polar voltage
- The designed circuit will be used to drive both top and bottom Normally On MOSFETs in a synchronous buck converter

## PROJECTS

- **AUDIO ZOOMING (Dr. Lalan Kumar)** (May, 2017 - July, 2017) :
  - **Researched** literature on Audio Zooming, Beamforming and Adaptive Noise Cancellation
  - Implemented the **Beamforming algorithm** and **Adaptive Noise cancelling algorithm** in MATLAB
  - **Successfully tested** the complete program of a sample recorded through microphone array
- **Waste energy recovery using Wind turbines (Prof.S M K Rahman)** (June, 2018 - Present) :
  - **Designing** a wind turbine for waste energy recovery from wind currents generated due to the motion of the vehicles
  - Selecting motor and structural parameters based on **MATLAB simulation**

## COURSE PROJECTS

- **Mobile phone tracking system** (Sep, 2016 - Sep, 2016):
  - Implemented **Multi-Branch Tree** in Java. The leaves acted as phones while the roots acted as main network tower.
  - Performed **Distributed Tree Search** to quickly connect to phones
- **A taxi aggregator service** (Oct, 2016 - Nov, 2016):
  - Built a graph in Java & Used **Dijkstra's Algorithm** to connect two nodes through the shortest path (rider and the driver)
- **A small search engine** (Sept, 2016 - Oct, 2016) :
  - built the basic data structure underlying search engines using **2D linked list**

## TECHNICAL SKILLS

- **Programming Languages:** C, C++, JAVA, HTML, CSS(Basic)
- **Software and Tools:** PSIM Electronic Simulation Software, LTspice, MATLAB, AUTO CAD, MS OFFICE

## POSITIONS OF RESPONSIBILITY

- **Maintenance Secretary, Zanskar Hostel, BHM IIT Delhi** (April 2017 - April 2018):
  - Led a team of **10** maintenance committee members and administered **budget of 2.5 lacs**
  - **Renovated** all the hostel washrooms by installing new doors, commodes, flushes, and jets. **equipped** the gym with the necessary items.
  - **Successfully installed** extra CCTV cameras and hot water taps throughout the hostel area
  - Conceived and got **5 major maintenance projects** approved from authorities and successfully executed them
  - Proposed and **successfully modernized** the hostel by installing **LED lights** in the gallery by replacing old CFLs
  - Renovated the drainage system by getting a budget of more than **1.5 lacs** approved. **Supervised** the process for more than **4 months**
  - Played a key role in the purchase of **100 chairs**. Replaced the old taps in the dining hall.
  - Got installed clothes hanger and towel bars in all washrooms and clothes stands to dry clothes.
  - Handled all the hostel related problems of the **400+ residents** professionally and solved within stipulated time
- **Mentor, Student Mentorship Programme IIT Delhi** ( April, 2017 - April, 2018):
  - **Guided** **4** first-year students to ensure their smooth transition in IIT Delhi and **took up their problems** at appropriate forum
  - **Assisted** the coordinators in smooth functioning of exhibitions, activities and academic session Counselling and Mentorship during Orientation 2017
  - **Organized** Parent-Teacher meetings by communicating the ward's progress to parents and introducing them to different aspects of student's life

## EXTRA CURRICULAR ACTIVITIES

- **Road Safety awareness events** (June 2016- June 2016) *Indian Road Safety Campaign Organization.*
  - **Volunteered** in organizing the Indian Road Safety Campaign Marathon



# PARAS GUPTA

## ACADEMIC DETAILS

| Year | Degree / Board                   | Institute                             | GPA / Marks(%) |
|------|----------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Mechanical Engineering | Indian Institute of Technology, Delhi | 9.604          |
| 2015 | CBSE                             | St. Lawrence Convent                  | 96.4%          |
| 2013 | CBSE                             | St. Lawrence Convent                  | 9/10           |

## SCHOLASTIC ACHIEVEMENTS

- **Departmental Rank 1:** Among 160 students in Mechanical Engineering Department, *indomitable from past 3 years*
- **Sensex ka Sultan IV:** Won **derivatives/financial market** reality show organized by **Zee Business and BSE INDIA**, Delhi Round
- **SN Bose Scholar Award 2018:** Awarded for demonstrating exceptional skills in **taking INDIA forward** in field of education and research
- **OPJEMS Scholar Award 2016, 2017:** Awarded **two times consecutively** for leadership and entrepreneurial excellence
- **IIT Delhi Semester Merit award:** Awarded for being in the top 7 percentile **five times consecutively** till the end of 3rd year
- **Under-Graduate Teaching Assistantship:** Awarded **two times** for teaching **MCP100** and **COL100** in the consecutive semester
- **Minor Degree in Computer Science:** Completed 12/20 credits already with most relevant courses and poised to cross 30
- **KVPY fellowship 2014:** Granted and funded by Department of Science and Technology, GOI for research excellence and leadership
- **Summer Undergraduate Research Award 2017:** Awarded for extensive research work for 2 month period between May-July

## INTERNSHIPS

- **Stanford University, Magic Lab, CA, USA** (May, 2018 - July, 2018) : *Localised and High frequency Solid state Cooling*
  - Worked in a group to find the Innovative ways to **use the polymers in the cooling system** instead of conventional cooling systems
  - Deployed **Electro-Caloric effect** for localised cooling with high achievable **COP more than five** to a multipurpose device
  - *Using multiple inter disciplinary concepts* and extensive experimentation achieved a **50 fold increase in switching frequency** to 50 Hz
  - **Paved way for future** by extracting relations between different parameters, a **significant step for commercial exploitation**

## PROJECTS

- **Stock Churning Framework in the Portfolio** (Sept, 2016 - Nov, 2016) : **Advisor: Dr. Shveta Singh (Management Studies)**
  - Analysed **setting Nifty 50 as benchmark** for portfolio and **studied 31 changes** for the period ranging from **01/2008 - 10/2016**
  - **Deleted components performed way better than the added one** and past performance suppressed the future prospects
- **Android Optimisation, Samsung Electronics** (June, 2017 - April, 2018) : **Advisor: Dr. Preeti Panda (Comp. Science Department)**
  - Contributed in team on a **corporate project to optimize Android** deploying *better power performance for enhanced user experience*
  - Studied the current **scheduling algorithms** and planned for adding more **automated techniques** with tweaks and past user experience

## POSITIONS OF RESPONSIBILITY

- **House Secretary, Kumaon Hostel, IIT Delhi** (April, 2018 - Present) : *Elected by 500 residents to lead 3-tier team of 50 members*
  - **Concluded impending work of WiFi installation** in Hostel in the *first-month* of tenure by creating expansive coercion on authorities
  - For the first time, **by continuous insistence**, planned the fast-track **renovation of all washrooms** in the hostel on the *special task basis*
  - Formulating a **cutting-edge Constitution for BHM** *implementing profound changes for lasting +ve effects in management structure*
  - *Embracing the committee meetings* and *initiating discussions on changes in Course Structure* to make academic culture persuading
- **Mess Secretary, Kumaon Hostel, IIT Delhi** (April, 2017 - April, 2018) : Elected by 500 students for Managing hostel budget
  - Led a team of 15 students, 2 Supervisors & 36 employees **ensuring proper functioning of mess** and **grievance redressal of residents**
  - Deployed a **live feedback system** in mess *bringing response time of all queries to all-time low* and **ensuring highest transparency**
  - Optimized use of consumables and supervised **accurate billing** guaranteeing the mess bill dropped to lowest among all hostels
  - Introduced **Desi Ghee in food preparation**, a *historical* move hailed by student community by the **ratio of more than 4:1**
- **Mentor, Student Mentorship Program, IIT Delhi** (July, 2017- Lifelong) : Mentoring group of **5 freshmen** to make their entry into IIT easier and **making them capable to take their own decisions** to lead fruitful life at IIT and beyond in future.

## EXTRA CURRICULAR ACTIVITIES

- **SARAS NGO, Delhi** (December, 2015 - January, 2016) : Society for Advancement of Research in Arts and Sciences
  - Brought **5 NGOs under the SARAS** and transferred them the technology that **benefitted more than 100 families and teachers**
  - Get into **insights of the functioning of an NGO**. Contributed significantly for the *future prospects* that led to the **birth of Eckovation**
- **Social Endeavours:** Completed **more than 100 NSS hours in just 1st semester** being engaged in numerous social activities taking place across campus and outside campus **benefiting the society, ranging across varied domains**.
- **Aeromodelling Club, IITD:** Undertook the activities of the club. Designing of various RC planes and other flying structures and participate in various Zonal and National level competitions(Boeing National Aeromodelling Competition).

## TECHNICAL SKILLS

- **Programming Languages:** Java, C++, C , Python, MATLAB, Verilog , PHP, SQL,HTML,CSS.



# UTKARSH PRABHAKAR



## ACADEMIC DETAILS

| Year | Degree / Board                   | Institute                             | GPA / Marks(%) |
|------|----------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Mechanical Engineering | Indian Institute of Technology, Delhi | 9.365          |
| 2015 | CBSE (Class 12th)                | Delhi Public School, Bokaro           | 93.4 %         |
| 2013 | CBSE (Class 10th)                | Delhi Public School, Bokaro           | 10/10          |

## COURSES DONE

Calculus, Linear Algebra & Diffe. Equa., Data Structures And Algorithms, Microeconomics, Introduction To Statistics, Intro To Operations Research, Numerical Methods& Computation, Probability & Stochastic Pro.

## IIT DELHI THESIS

**Title:** *Stock Selection and Portfolio Optimization in Indian Stock Market* (Jul'18-ongoing)

**Supervisor:** Dr. Varun Ramamohan (Assistant Professor, Operations Research, IIT-Delhi)

**Description:** This project involves (i)selection of *investment worthy NSE stocks* for portfolio construction and (ii) *optimum asset allocation* by using **Genetic Algorithms (GA)** and by implementing various **Machine Learning** Frameworks.

## SCHOLASTIC ACHIEVEMENTS

- **Department Rank 3** || **Twice** scored **perfect 10/10 SGPA** while pursuing BTech. in Mechanical Engineering at IIT-Delhi.
- **IIT-D Semester Merit Award:** Awarded in 2016-17-18 for being in **top 7%** academically of Mechanical Engg. batch.
- **Jawaharlal Nehru Science and Technology Scholarship, SAIL:** For outstanding academic performances. (2015-19)
- **International Rank-18, Zonal Rank-2 in International Mathematics Olympiad(2015),organized by SOF-British Council**
- **AIR-5 in ICAR's AIEEA (2015) || State Rank-3, in Jharkhand Combined Entrance Competitive Examination (2015)**

## INTERNSHIPS

- **SANTOOR soap packaging line division | WIPRO Ent. (P) Ltd.** (May'18-Jul'18)  
Enhanced packaging lines' efficiency using innovative solutions; **Appreciated by the COO/VP, Wipro Consumer Care**  
- Applied **Six Sigma (6σ) DMAIC** methodology and tools like 5 Whys, Pareto analysis, FMEA and Fish bone diagram.  
- Designed new soap bar holders, reduced stiffener lateral shifting issues, increased wrapper sealing efficiency etc.  
- Packaging line **rejections reduced from 5.2% to 3.5%** (annual savings of Rs. 30 lakhs); Was **offered a PPO**.
- **Web Development** section of C & IT Department | **Steel Authority of India Ltd. (SAIL)** (Jun'17-Jul'17)  
Developed a web-based system for handling huge number of RTI enquiries sought for Bokaro Steel plant, Jharkhand  
- Implemented **MVC architecture in Java** ; The major modules included online information gathering from various information officers located at different plant locations, time-bound replies, alerts and final closing replies of the RTI.  
- Utilized bootstrap framework along with *JSP, Java servlets, Java beans, Javascript, JQuery, AngularJS and Oracle DB*.

## PROJECTS

- **NSE stock price prediction using Neural Networks** (Dr. V. Ramamohan) (Nov'17-Dec'17)  
Implemented **LSTM-Recurrent Neural Network (RNN)** in python, on time series data to forecast the prices of equities.
- **Back-end for Placement Management Application** (Course: Data Structure & Algorithms) (Feb'17-Mar'17)  
Used an extended version of **Gale-Shapley algorithm** for the purpose of *stable matching* of graduates and companies.
- **A Discrete-event Simulation Model of the Kidney Transplantation System in Rajasthan**(Prof.Varun) (Mar'18-May'18)  
Derived highly valued statistical results using **OR techniques**; *First of its kind in India*; Research paper to be published.

## TECHNICAL SKILLS

- **Languages:** Java(EE/SE), Python, R, C++, Excel VBA • **Web-Development:** Javascript, Jquery, PHP,Joomla,XML, CSS
- **Others:** Matlab, WebSim, MySQL, Apache Tomcat, Anaconda, Oracle DB • **Machine-Learning:** Tensorflow, Scikit Learn

## POSITIONS OF RESPONSIBILITY

- **Teaching Assistant** | Course: *Engg. Visualization (MCP100), Kinematics & Dynamics of Machine (MCL111)* (2018)  
Mentored and guided over 50+ students to ensure better conceptual clarity; Evaluated course assignments and quizzes.
- **Technical Editor** | **Board of Student Publication**, IIT-Delhi (2016-17) : **Won annual BSP TROPHY (runners up)**  
Maintained BSP's website using **JOOMLA CMS**; Created new webpages like 'Prof. Next Door' and designed magazines.
- **Hostel UG Representative** | **VindhyaChal Hostel**: Represented and solved issues of the batch of 2015-19. (2016-17)

## EXTRA CURRICULAR ACTIVITIES

- **Vice-Captain, Table Tennis**, VindhyaChal Hostel (2016-17) || • **Spanish (Level-1)**: Completed 40 lectures course (2017)
- **Event Management**: **Activity Head**, Literati (literary fest) and **Team Head**, Rendezvous (cultural fest) at IIT-D (2016-17)



# AKASH KUMAR

## ACADEMIC DETAILS

| Year | Degree / Board                           | Institute  | GPA / Marks(%)  |
|------|--|--|-----------------|
| ---  | B.Tech in Mechanical Engineering<br>CBSE | Indian Institute of Technology, Delhi<br>Jawahar Navodaya Vidyalaya,<br>Kottayam | 6.917<br>91.6 % |
| 2015 | CBSE                                     | Jawahar Navodaya Vidyalaya, Rajgir   | 10/10           |
| 2013 |  |  |                 |

## SCHOLASTIC ACHIEVEMENTS

- International Publication:** Authored 2 paper across diverse disciplines of management, marketing & mechanical engineering
  - Kumar A. et al, 'Determination of quality of life in IIT Delhi Hostels', IJAMR (2018)
  - Kumar A. et al, 'Communication Strategies for raising Awareness about Menstrual Hygiene at the Bottom of the Pyramid', IJAMR(2018)
- Kishore Vaigyanik Protsahan Yojana (KVPY):** Selected for the prestigious fellowship award by MHRD, Govt. of India (2014)
- National Means-cum-Merit Scholarship:** Awarded NMMS by State Council of Education Research & Training (2011-13)
- Dakshana Scholarship:** Selected for Dakshana Scholarship program for being in top 1% of JNV students from across India

## INTERNSHIPS

- Operations Analyst, Nuplanet Ventures | Rawble.com** (May, 2018 - July, 2018) :
  - Actively monitored the company operations and made a variety of recommendations for improving efficiency and services
  - Created datasets for 75000+ products by web scraping using **python scripts** to be used in **machine learning model**
  - Assisted accounts and management department to **automate various tasks** in Zoho, a Cloud Software Suite & SaaS Application
  - Developed a strategy for targeting potential customer demands by mapping their online website data with our databases

*Received Letter of Recommendation for exemplary determination and inquisitive approach towards problem-solving*

## PROJECTS

- Search Engine** (Jan, 2018 - Feb, 2018) :
  - Built data structure underlying Search Engines by creating a **simple inverted index** for search queries on webpages
  - Used a hashing function efficient in arranging pages in proper priority for search queries using PageRank algorithm
- Mobile Phone Tracking System:** (Feb, 2018 - Mar, 2018) :
  - Designed a hierarchical exchange based **Routing Map Tree** implementing Mobile Phone networking system
  - Included the feature of call routing between mobiles and location tracking using the concept of location based exchanges
- Road Network Development Planning** (Mar, 2018 - Apr, 2018) :
  - Identified prime junction to develop optimized road network planning by implementing Kruskal's algorithm in graphs
  - Implemented **Dijkstra's algorithm** for finding the quickest way to travel between two locations considering traffic delay
- Movie rating predictor** (Apr, 2018 - May, 2018) :
  - Implemented the **Naive Bayes algorithm** over IMDB movie review dataset to predict the rating given by the reviewer
  - Did **Preprocessing** such as stop word removal and feature engineerings such as **tf-idf** and **bigram model** for the same
- Song release year predictor** (July, 2018 - Aug, 2018) :
  - Implemented ridge regression in python to predict release year of a song from audio features for UCI million song data
  - Used Lasso model fit with LARS package to learn hyperplane for feature creation and selection for the above dataset

## TECHNICAL SKILLS

- Programming Languages :** C, C++, Java, Python, HTML, CSS
- Software & FrameWork :** Autodesk Inventor, SolidWorks, ANSYS, FluidSim, Creo, Matlab, Scikit, Tensorflow, Keras

## EXTRA CURRICULAR ACTIVITIES

- Marketing Activity Head, Rendezvous** (Apr, 2017 - Oct, 2017) :
  - Forged association with Online Media Partners and organized informal publicity events in the cultural fest, Rendezvous'17
  - Formulated and negotiated nation-wide target campaigns for Zebronics, Boroline and food sector companies

## POSITIONS OF RESPONSIBILITY

- Mentorship Manager, Avanti Fellows** (May, 2017 - April, 2018) :
  - Publicized organization's activities and volunteering opportunities among 850+ freshmen during Orientation 2017-2018
  - Planned and organized regular doubt solving sessions and various other activities for students at Avanti Learning Centre
- Mentor, Avanti Fellows** (July, 2016 - April, 2017) :
  - Mentored 3 students under Avanti Mentorship Program, a Pan IIT undertaking to provide opportunities to meritorious students
  - Provided one to one mentoring to students preparing for IIT-JEE and various engineering entrances at Avanti Learning Center
  - Guided and counseled students throughout the year; helped them maintaining their academic well-being



# AKHILESH VERMA



## ACADEMIC DETAILS

| Year | Degree / Board                   | Institute                             | GPA / Marks(%) |
|------|----------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Mechanical Engineering | Indian Institute of Technology, Delhi | 5.199          |
| 2014 | UP BOARD                         | BJICT KANPUR                          | 86.2%          |
| 2012 | UP BOARD                         | BSHSG KANPUR                          | 80.5%          |

## SCHOLASTIC ACHIEVEMENTS

- **DISA** -Design and Innovation Summer Award: Received by MHRD's Design Innovation Center (DIC) out of 900+ students
- **BS Hajela Memorial Scholarship**: Selected for scholarship among 800+ students over academic excellence (2015-2016)
- **Vijay Arora Memorial Scholarship**: Selected for scholarship among 800+ students over academics excellence (2015-2016)

## PROJECTS

- **AUTO RATS ( Prof. Sudipto mukherjee)** (May, 2016 -Aug,2016) :
  - Calculated the specific cutting energy of soil in scraping action and hammering action to determine the optimal method
  - Revamped the underground digging process using swash plate thus ensuring both scraping and hammering action
  - Constructed a working prototype which is an assembly of swash plate drill bits and a central precision component
- **COMPACT QUICK COMPOSTING (Prof.Dr. Kavya Dashora)** (May,2017- July,2017) :
  - Designed a compact composter for quick composting of domestic organic waste and made a CAD model in Autodesk
  - Modelled a heating chamber with a heating coil and a fan to drive the heated gasses into the inner insulated cylinder
  - Developed a mashing mechanism with a central shaft & several blades to mash the waste, modelled the cutting motion
- **Simplex Method for Resource Optimization** ((Sept, 2017 - Oct, 2017) : Prof. Kiran Seth
  - Implemented in C++ using **Simplex Method's** algorithm to optimize resource variables in given linear prog. problems
  - Inculcated extensions like dual simplex, revised simplex to decrease overall **time-order** complexity of the algorithm

## EXTRA CURRICULAR ACTIVITIES

- **Dramatics Club**: Performed over **30 play** performances at professional, national and institute level over three years (2015-18)
- **National level and Professional Level** :**Second Runner up ,Director and Actor**, **Rendezvous Stage Play Competition'17 -Winner**, Inter IIT General Championship 2017; **Runner up** in Dramatics **Inter IIT cultural Meet** amongst 21 IITS (2017)
- **Winner**, Best Set design Trophy for "Mix Veg In Hot Garlic Sauce", Rendezvous Stage play Competition'17(Set design)
- **Film Appreciation Course**, as an Actor with 87 participants from all over India,**Film and Television Institute of India**
- **Supporting Actor and Production Head**, Rendezvous Stage Play Competition'16, amongst 40 National level plays
- **Professional Actor**, sukhmanch Theatre Group is undertaking by famous Theatre and Cinema Actor, Shilpi Marwaha
- **Institute Level** :*Led hostel to more than 10 Inter Hostel Competitions, 2nd Runner up, coveted BRCA Trophy 2015-2016*
  - Winner**, Inter IIT General Championship 2017; **Runner up** in Dramatics **Inter IIT cultural Meet** amongst 21 IITS (2017)
  - Winner,Actor and Director** Inter-hostel Stage Play, **Best script** adaptation for Saadat Hasan Manto's 'Toba Tek Singh' (2017)
  - Runner up, Actor**, Inter-hostel Stage Play Competition, Reginald Rose's play "12 Angry Men" amongst 13 entries (2017)
  - 2nd Runner-up,Director**, and **Lead Actor**, Inter-hostel mime, awarded special mention for Best original script (2016)
  - Best Performance** of the Event, Inter-Hostel Monoact, "Genie" based on true story, (Actor, Director, Production - 2018)
  - Best Entertaining Act**,Inter-Hostel Street play , "Cheap Chinese Products" awarded most comic play (Actor,Director - 2018)
  - Actor**,all BRCA board night ,stage play "wajood" adaptation from self written story "Ambedkar vs Gandhi" (2017)
  - Play trailer**, Founded new idea for "Dramatics Club" publicity with Play "Mix Veg In Hot Garlic Sauce" (Writer ,Director)
- **Photography & Filming Club and Dance Club** : *Directed, scripted or acted in 5+ Short movies at national and institute level*
  - Actor and Director**, Inter Hostel Short-movie Making Music Videos Competition,"I Wish" amongst 13 hostels (2017-2018)
  - Second Runner up**, Inter-Hostel Group Dance Competition amongst 13 hostels that participated in the event (2015-2016)
- **Retake Entertainment** : *Acted, scripted in videos for a YouTube channel with the international audience (2015-2018)*
  - Edited, Directed and Assisted** in over 10+ video project currently available for **worldwide** viewership on YouTube
  - Garnered over 400000+ views and 6500+ subscribers while maintaining a laudable like/unlike ratio of over 95%

## POSITIONS OF RESPONSIBILITY

- **Director,Dramatics club** (Mar, 2017 - Apr, 2018) : *Head of all national level plays by IIT Delhi and led a team of 30*
  - Directed **15+** plays for Inter-hostel events, National level and Institute production in the span of just two years
  - Trained** and led a **contingent** of 30, auditioned from 13 hostels in professional drama workshop for 25 days ('17)
  - Directed** and **Adaptation** of 'Ek Mamooli Aadmi 'on BRCA orientation, awarded best performance of the evening ('17)
- **Panel Member, Dramatics Club**: *Nominated as 1 of the 5 members of the Advisory Panel of Dramatics Club, IIT Delhi (2018)*
  - Devised a script bank system, increased convenience for the play-makers raising the bar of the inter-hostel drama events
  - Idea-ted many significant changes to all the events conducted at institute & national level; for the betterment of the club
  - Awarded **Significant contribution in Dramatics Club** , the highest honor given by the club to its valued members (17-18)



# ANKIT JAIPURIA



## ACADEMIC DETAILS

| Year | Degree / Board                   | Institute                             | GPA / Marks(%) |
|------|----------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Mechanical Engineering | Indian Institute of Technology, Delhi | 8.557          |
| 2015 | CBSE                             | Step By Step High School, Jaipur      | 93.8%          |
| 2013 | CBSE                             | Step By Step High School, Jaipur      | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- Student Exchange:** INSA Lyon, France, 1 of the 4 students - selected based on academic and co-curricular distinction, 2017
- Summer Undergraduate Research Award (SURA):** Conferred the principal research grant by Industrial R&D Unit, 2017
- Kishore Vaigyanik Protsahan Yojana (KVPY):** 1 of 655 students awarded the fellowship by DST, Govt. of India, 2013
- CBSE Merit Certificate:** Awarded for outstanding performance and scoring **perfect grades** in all subjects, AISSE, 2013
- Excellence in Science & Technology:** Awarded the prestigious trophy for exhibiting consistent academic brilliance, 2014
- Science Olympiad, SOF:** Secured an **international rank of 61** for distinctive performance in the prestigious exam, 2014
- Physics International Tournament:** Awarded **bronze medal** by Indian Association of Physics Teachers, Govt. of India, 2013

## INTERNSHIPS

- ITC Limited, PSPD Kovai** (May, 2018 - July, 2018): *Reduction of Turn Around Time(TAT) for input material trucks*
  - Employed Six-Sigma tools and identified the key issues using AsIs mapping, Minitab tools & Pareto principle
  - Introduced live truck tracking, increasing transparency by 70% & reducing man-power; **INR 6.5 Lacks annual savings**
  - Reduced unloading cost per tonne by 20% via equipment reduction; **decoupling bottlenecks** by revamping the process
  - Brought down TAT by 23%, establishing **automated quality checks** & organizing unloading yard, increasing robustness
  - Received LOR by Lean cell HOD for devising efficient technical & systemic solutions leading to TAT reduction to 50%*
- UpGrad, Mumbai** (July, 2017 - September, 2017): *Big Data Engineering Program, Program Management Division*
  - Increased revenue generating opportunities through pitching & content development achieving **100+ new registrations**
  - Increased product speed to market by 4 hours per month by consolidating and centrally organizing company's data
  - Received Letter of Recommendation for excellent performance and commendable achievements within limited time frame*
- Wanderwagon, Delhi** (May, 2016 - July, 2016): *Online travel platform start-up, providing a hassle-free travel experience*
  - Conceptualized the **gamification** for the travel start-up which **doubled the average website registration** per week
  - Optimized travel logistics after a detailed competitive analysis which **brought down** the company's **expenditure by 30%**
  - Received Certificate of Appreciation from CEO for outstanding work and significant value addition to the early stage start-up*

## POSITIONS OF RESPONSIBILITY

- House Secretary, Girnar Hostel (April, 2018 - Present):** Elected by 600+ residents to lead a 3-tier team of 50+ residents
  - Institutionalized the **first ever** hostel **Alumni Fund**; appointed a secretary to build, improve & strengthen **alumni relations**
  - Constituted expedient welfare bodies with rotating membership of **200+ residents**, fostering efficient **inclusive governance**
  - Launched **hostel's first website**, centralizing all operations including grievance retrieval, feedback and alumni connect
  - Installed **QR codes** in common areas linking them to the **centralized complaint system** making the process hassle free
- Core Team Member, Speranza (Aug, 2016 - Sept, 2016):** Spearheaded sketching & execution of 50+ events and workshops
  - Conceptualised, organized and executed numerous new events like beg borrow steal, increasing the **participation by 100%**
  - Pitched various **NGO's** for Speranza, & executed events like Mime Act & Caption writing competition in **collaboration**
  - Coordinated with Events & Publicity division; Handled publicity of **15+ events** which increased the outreach by 2-folds
  - Awarded Best Representative, Speranza for pioneering new fresh events and an outstanding contribution to Speranza*
- Coordinator, Prizes & Certificates, Tryst'18 (Oct, 2017 - Mar, 2018):** Led a team of 15 to manage prizes worth **INR 6 Lacks**
  - Revamped the common web portal to ensure error-less compilation of results for over **70+ events and 800+ participants**
  - Conceptualized central database compilation system ensuring efficient information collection, increasing financial transparency

## EXTRA CURRICULAR ACTIVITIES

- Awards and Competitions:**
  - Winner, RuTAG B-Plan national competition: **Only team selected to represent India** in the **international conference**, 2018
  - 2nd Runner-up, Estimath: National competition based on probability, guesstimation & prediction, Tryst Tech Fest IITD, 2017
  - Trinity Guildhall, Trinity College London: Received the prestigious award for **musical excellence** in plectrum guitar, 2011
- Social Welfare:** Worked as a mentor, welfare representative & got involved in 15+ national social service activities
  - AmbiVan, Indian Road Safety Campaign:** Project was supported and fully funded by Govt. of India, AIIMS & IIT Delhi, 2017
  - Proposed an app **upgrading & digitalizing** the channels used to seek medical aid after analysis of various hospital surveys
  - Aimed at **reducing delay in medical assistance by 60%** with the use of simple location-based mapping, similar to UBER
  - Student Mentorship:** Guided 5 freshmen to acclimatize them with academics & extracurriculars; conducted **life map sessions**
  - Student Welfare:** Raised money for **welfare grants** & associated with various outlets providing discounts to IITD students



# ATA UL HAQUE

## ACADEMIC DETAILS

| Year | Degree / Board                   | Institute                             | GPA / Marks(%) |
|------|----------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Mechanical Engineering | Indian Institute of Technology, Delhi | 7.742          |
| 2014 | Intermediate Examination, BSEB   | Oriental College, Patna               | 73             |
| 2012 | ICSE, CISCE                      | Christ Church High School, Patna      | 91.8           |

## SCHOLASTIC ACHIEVEMENTS

- **Harvard Project for Asian & International Relations :** Harvard's largest Student Conference in Asia-Pacific Region One of the **600 international delegates** selected from **60 countries** for the 5-day Asia Conference at Kuala Lumpur (2018)
- **International Publications:** Haque A. et al, 'Determination of quality of life in IIT Delhi Hostels', IJAMR, Int. J. Adv. Multidiscip. Res. (2018)
  - Haque A. et al, 'Communication Strategies for raising awareness about menstrual hygiene at the bottom of the Pyramid', IJAMR (2018)
- **International Conference :** Selected to present the **winning B-Plan** in closing ceremony of the RuTAG Conference (2018)
- **BSEB Merit:** Attained a percentile of **Top 1%** in science stream in Intermediate Bihar School Examination Board (2014)
- **INSPIRE Scholarship:** Qualified for scholarship awarded by **Ministry of Science & Technology** to top 1% of XII students (2014)

## INTERNSHIPS

- **ITC Limited, Munger** (May, 2017 - July, 2017) : *Sustainability Roadmap*
  - Rainwater Harvesting Management: Analysed RWH & recommended construction of reservoir **increasing** RWH potential by **32%**
    - Demonstrated **40% decrease** in cost for renovated RWH project by switching to dip scale measurement technique
  - Solar Power plant: Performed theoretical surveillance & examined viability of solar power plant under regulations of BERC
    - Devised the feasibility report for the construction of **5 MW solar power plant** using environment & cost-benefit analysis
- **Ernst & Young** (May, 2018 - July, 2018) : *Government & Public Advisory Services*
  - Designed & conducted surveys amongst **60+ MSMEs**; Analysed survey to validate hypothesis regarding awareness of Industry 4.0
  - Identified best practices for Indian MSMEs by conducting country-wise policy analysis of **8 countries** on technological advancements
  - Recommended government interventions of common testing facilities to help MSMEs embrace advanced technological solutions
  - Prepared a thought leadership on 'Industry4.0: Impact on Indian Micro Small Medium Enterprises' for prospective opportunities

*Received Letter of Recommendation from Partner for exemplary determination and inquisitive approach towards consulting*

## POSITIONS OF RESPONSIBILITY

- **Marketing Coordinator, Rendezvous** (Nov, 2017 - Present) :
  - Led a **3-tier team** of **30+** to raise finances, manage the endorsements and artist tie-ups for BRCA & its patrons
  - Achieved **25% YoY increase** in the **budget** by fostering an integrated benefit model over the rigid sponsorship slabs
  - Reduced company's **response time to 50%** and increased response rate by 100% via implementing sectorial pitching
  - Formulated a pan-India **6-month media plan** in collaboration with 9XM, The Hindu, Cinepolis Cinemas and 16+ magazines
- **Convener, Co-curricular and Academic Interaction Council (CAIC)** (July, 2018 - Present) :
  - Elected to represent the **highest academic body** of institute which receives its mandate from Senate of the institution
  - Acted as a liaison between students, administration & faculty of the department for suggestions and problem redressal
  - Modelled **publicity campaigns** for initiatives like Inter IIT Semester Exchange by conducting surveys amongst students
- **Events Coordinator, Speranza** (April, 2017 - September, 2017) :
  - Devised a comprehensive strategy for the end to end actualization of over **30** youth-centric **events** across all 3 days
  - Fostered **centralized logistics** procurement for informal & professional events ensuring optimal resource allocation
  - Conceptualised and organized the event Mr. & Miss Speranza, one of the **most successful events** of Speranza'17

## EXTRA CURRICULAR ACTIVITIES

- **Case Study & Business Plan Competitions:**
  - **Winner**, B-Plan Competition on 'Biogas Conversion Kit', Technology and Innovation Club, IIT Delhi (2018)
  - **Winner**, 'Sashakt - Social Case Study Competition', Tryst, IIT Delhi & Ministry of Youth Affairs & Sports (2018)
  - **Winner**, 'Petro Rogers – Petro Case Study', national level Case Study Competition, Concetto, ISM Dhanbad (2018)
  - **Winner**, B-Plan Competition organised by Rural Technology Action Group on International RuTAG Conference(2018)
  - **Winner**, 'Economist- cost befit analysis', Kshitij, techno-management fest, IIT KGP & Indian National Commission (2017)
  - **Runner Up**, 'Extempore', NSS, IIT Delhi; **Finalist**, 'Case Wars', Miranda House; **Finalist**, 'A Case Odyssey', Tryst IIT Delhi(2018)
- **Dramatics:** Performed various stage & street play events
  - **Runner Up**, Inter Hostel Stage Play Competition amongst 13 hostels, BRCA, IIT Delhi; **Actor**, '12 Angry Men' (2017)
  - **Second Runner Up**, Inter-hostel Mime competition, BRCA, IITD; **Actor**, Received a **special mention** from the judges (2016)
  - **Actor**, Inter-hostel street play competition, BRCA, IITD (2016); **Actor**, inter-hostel stage play competition, BRCA, IITD (2016)
- **Social and Student Welfare Endeavours:** Associated with The National Trust, MSJE & Board of Student Welfare, IIT Delhi
  - **Ministry of Social Justice & Empowerment:** Designed an Indianised App for children with ASD to facilitate better communications



# AYUSH RAI



## ACADEMIC DETAILS

| Year | Degree / Board                   | Institute                             | GPA / Marks(%) |
|------|----------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Mechanical Engineering | Indian Institute of Technology, Delhi | 8.167          |
| 2015 | CBSE                             | Carmel Convent Sr. Sec. School        | 95%            |
| 2013 | CBSE                             | International Public School           | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- International Conference:** Presented at **ICIRSTM-2017** organized by IIRAJ held at **National University Singapore** (2017)
- International Publication:** Ayush R. et al." Enhancing Mechanical Response of Magnesium Using Y & Y2O3", IJSR (2017)
- Awarded proficiency** in Mathematics, Physics & Computer Science in class XII for scoring highest in school (2015)
- Letter of Merit:** Received from (then) HRD Minister, Smriti Irani for exhibiting academic excellence in 12th Standard (2015)

## INTERNSHIPS

- Boeing Externship Program'18, Hyderabad** (May 2018 - Jul 2018): *Lightning Strike Response on CFRP composite Developed 2 new Lightning Strike Protection models, Graphene (as LSP) providing protection of 97.66% to the aircraft panel*
  - Developed **comprehensive models**, to simulate the damage due to lightning strike on a fuselage panel of **Boeing-787**
  - Performed **cohesive zone modeling** to simulate delamination & user-defined modeling using subroutines coded on **Fortran**
  - Received **Letter of Recommendation** from **DGM, Aero-Structures** for commendable performance & work accomplishments
- National University Singapore, Singapore** (May 2017 - Jul 2017): *Enhancing Properties of Mg Nanocomposites Achieved increase in Elastic strength by 71.5%, Ultimate Compressive strength by 33.4% & Microhardness by 39.56%*
  - Experimented & devised a lightweight material for **combat aircraft interiors** as a way to reduce jet fuel consumption
  - Received **Letter of Recommendation** from Prof. Manoj Gupta; Work published in IJSR & presented in ICRSTM conference

## PROJECTS

- Disposable Tracheostomy Tube** (Jan 2017 – April 2017): Semester-long collaboration with **All India Institute of Medical Sciences New Delhi**
  - Developed a biomedical device, **InCan**, a disposable inner cannula applying **Biodesign & Human-Centered Design** process
  - Explored needs through immersions in OPD, OTs, and wards to make **tracheostomy care** a simple & low-cost process

## POSITIONS OF RESPONSIBILITY

- Cultural Secretary, Girnar House** (Apr 2017 - Mar 2018): Elected unanimously to lead 13 reps across 3 boards
  - Headed the cultural team, clinching **British High Commission Shield** for the Best Hostel & **Runners Up Trophy, BHM**
  - Led a team of 15 to organize Girnar's first cultural fest **Safari** & hostel's first ever **Inter College Social Meet** with IPCW
  - Spearheaded the development of '**Abhyudaya**', publishing hostel magazine for the first time to publicize the hostel's culture
  - Undertook the development of **hostel website**; centralizing grievance redressal, news-dissemination & other information
  - Conducted 7 national level music events spanning 4 days in north India's biggest cultural festival, **Rendezvous'17**
- Events Coordinator, Tryst 2018** (Nov 2017 - Mar 2018): Managed a team of 40+, supervising 3 online prefest events
  - Conceptualized & organized 4 Flagship & 2 cultural events increasing the participation to nearly 2 times of that in 2017
  - Formulated & managed the highly successful event "Paper presentation" attracting 200 participants all across India
  - Coordinated Stage & Street plays in collaboration with **Asmita Theatre** group & Tryst's social campaign "**Sashakt**"
- Project Executive, Enactus** (Jan 2016 - May 2017): Socio-economic development of marginalized communities
  - Runner-up** in Enactus National Competition 2016; **Presented Enactus IIT Delhi** among 72 teams all across the country
  - Piloted an on-ground microenterprise, **Titli**, initiative to improve the menstrual hygiene of indigent women in Delhi NCR
  - Designed & developed a **low-cost, reusable sanitary napkin** through the approach of **Human-Centered Design** process

## EXTRA CURRICULAR ACTIVITIES

- Dance:** Active member of Dance society IITD for 3+ years, directing and performing at the institute and national level
  - Director, Ensemble, Institute Choreography Society, Dance Club, BRCA:** (May 2017 - Apr 2018)
    - Conceptualized and choreographed the winning performance in Kaleidoscope **Rendezvous'17**, with the theme '*Rashmirathi*'
    - Trained & led a team of 30 members; organized institute level dance workshops for promotion & publicity of dance culture
    - Winner**, National Level Thematic Choreography Dance Competition, **Rendezvous** for 2 consecutive years (2016-17)
    - Director**, Institute Dance production'17: Choreographed & trained 11 freshmen with contemporary dance form (2017)
- Social Endeavors: Project Executive, NSS IIT Delhi** (Apr 2016 - Mar 2017): Promoted nation-building activities
  - Administered the 11th batch of "**Aarohan**" Teaching Project, tutoring underprivileged students for **JEE Mains-Advance**
  - Led a team of 10+ members; designed & executed curriculum, **mentorship program** & orientation in 10+ govt. schools
  - Organized **Youth Adda**, nature walks & collection drives; Co-organized the **Annual Social Fest** of IIT Delhi, Kaizen'17
- Student Mentorship:** Mentored 5 first-year students; Awarded as **Best Mentor** of the session 2017-18 (Jul 2017- Mar 2018)
  - Rectified & reported the **shortcomings** in current language programs & other problem faced by **Hindi medium** students



# BHADORIA ADITYA AKHILESH



## ACADEMIC DETAILS

| Year | Degree / Board  | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech in Mechanical Engineering                                    | Indian Institute of Technology, Delhi | 7.182          |
| 2015 | Maharashtra State Board of Secondary and Higher Secondary Education | S.B.E.S College of Science.           | 90.15%         |
| 2013 | Maharashtra State Board of Secondary and Higher Secondary Education | St. Lawrence High School              | 96.36%         |

## QUALIFYING EXAMS

- Joint Entrance Examination (JEE) Advanced Rank: 763 (GE)

## SCHOLASTIC ACHIEVEMENTS

- National Talent Search Examination (NTSE): Awarded scholarship after 2-tier selection process by NCERT. (2011)
- Kishore Vaigyanik Protsahan Yojna (KVPY): Conferred fellowship through 2-tier process by Govt. of India. (2015)
- Awarded Top 1% merit certificate in National Standard Examination in Physics (NSEP) (2015)

## INTERNSHIPS

- Smart Parts Online Pvt. Ltd., Gurugram (May, 2018 - July, 2018) : *Business Development, Operations*  
*Reported directly to Head, Business Development and Operations*
  - Planned and strategized company's **ATL and BTL marketing activities**, and established marketing vendor contacts.
  - Conducted **market study** of car sales data (2011-2016) and the company's sales statistics to pinpoint target districts as well as car models. Planned advertising activities accordingly in these districts.
  - Successfully setup new framework guidelines for **Returns management** after going through the company constitution.
  - Designed a **dynamic function** which helped company make decision in case of price increment by parts' vendor.
  - Designed a graphical representation of business processes in the hub using **Business Process Modeling and Notation 2.0** protocols. Presented this model to the CEO of the firm.
  - Vendor development** for international logistics and warehouse requirements for established hub in New Delhi.
  - Strategic sourcing and warehouse layout planning** for setting up a new hub in Jaipur.
  - Analyzed different car service manuals and OES/OEM/aftermarket replacement parts to create an extensive database for complete **servicing kits** for top car models in India.

## PROJECTS

- Gearbox Fault Diagnosis using AE sensors (Dr. A.k. Darpe) (May, 2017 - July, 2017) :
  - Designed an experiment to monitor Acoustic Emissions(AE) from a gearbox under various conditions.
  - Conducted experiments to gauge the effectiveness of using AE for determining the extent of gear faults. Compared with results from traditional sensors.
  - Gained extensive insight into development of a test rig through my involvement in the design of the experimental setup.
  - Determined key parameters to be monitored for successful unobtrusive diagnosis of gearboxes at high success rates.
- Design of Shaft-driven bicycle (Dr. Jitendra P. Khatait) (Fall 2017) MCL211 Course project :
  - Designed a non-conventional chainless shaft-driven bicycle and compared its performance, efficiency, cost and ergonomics with the regular conventional chain-driven bicycle.
- Thermal diagnosis of a car exposed to sunlight (Dr. S. Mukherjee) (Spring 2018) MCP301 Course project:
  - Studied the effect of direct sunlight on a car, and the hazards that come with it. Modeled the process and used it to identify the interior car zones with high rise in temperature of car cabin due to prolonged exposure to sunlight.

## TECHNICAL SKILLS

- Programming languages: C, C++, Python.
- Softwares: MATLAB, Autodesk Inventor, SOLIDWorks, ANSYS Design Modeller, ANSYS Parametric Design Language



# DHANANJAY GUPTA



## ACADEMIC DETAILS

| Year | Degree / Board                   | Institute                             | GPA / Marks(%) |
|------|----------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Mechanical Engineering | Indian Institute of Technology, Delhi | 7.934          |
| 2015 | CBSE                             | Richmondd Global School               | 96.8%          |
| 2013 | CBSE                             | Tagore International School           | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- KVPY:** Shortlisted for fellowship on the basis of academic merit by Dept. of Science, and IISc Bangalore (2015)
- Sangeet Prabhakar:** Completed **2 diplomas** and a **degree** in Sarod with over 7 years of experience (2013)
- Industrial Project:** Awarded LoA by **ex-Schlumberger** engineers at **Oges** for a collaborative research project (2018)
- National Chemistry Quiz:** Secured **2nd Runner Up** at chemical engineering competition "Chem-E Quiz" (2018)
- Open House:** Set up poster presentation and stall for novel assistive device at Open House, IIT Delhi (2017)
- CBSE Merit Certificate:** Awarded for being among the top **0.1%** of successful candidates in Physics (2015)
- Letter of Appreciation:** Awarded by HRD Ministry for overall exceptional performance in Board examinations (2015)

## INTERNSHIPS

- Defsys Solutions Pvt. Ltd, Gurgaon** (May, 2017 - July, 2017): *Mechanical Research and Development*
    - Attained **10% improvement in heat dissipation** through design, testing, and optimization of Heatsink for a high power amplifier
    - Designed Mockups** for a Mobile-based Test and Measurement System for chaff deployment, and Litening pods
    - Planned floor layout over an area of **4000 sq. mtr.** which was implemented for construction of **Aircraft Role Equipment warehouse**
- Awarded a Letter of Recommendation from the General Manager (R&D) for achieving design goals and implementation*

## PROJECTS

- AxesPro (Prof. Sunil Jha)** (Sept, 2017 - May, 2018): *Startup -Pharmaceutical Automation in retail sector*
  - Received **2 Lakh rupee grant** under **Student Startup Action Plan 2017-18** to develop a prototype and give proof of concept
  - Developed an **Automated Storage and Retrieval System** suitable for commercial use in Indian pharmacies
  - Designed and produced **belt-drive; rack and pinion; and stabilizing mechanisms** for mobile stacker crane
  - Pitched to potential clients - **Apollo Pharmacy, Max Group and Fortis Healthcare** - garnering positive response

## POSITIONS OF RESPONSIBILITY

- General Secretary, BSP** (Apr, 2018 - Present): Selected to lead **3-tier** institute level media body
  - Launched **flagship initiatives** – GSec Manifesto Review, Humans of IITD, Freshman Series within the first quarter of tenure
  - Pioneered first of its kind **Technical Blog** for UG and PG students to share their research and insights on various technical issues
  - Collaborated with IIT Delhi's linguistic societies to provide **multilingual content** online and in print, increasing inclusivity and diversity
  - Integrated existing fora along with BRCA to devise a **unified online platform** for publishing and appraising student's creative work

Overall Coordinator, Literati 2018: Built and led a team of **50+ students** to organize IITD's annual 3-day literary festival

  - Organized **20+ events** spreading across various domains such as panel discussions, quizzes, poetry, and targeted workshops
  - Enhanced transparency in budget management by proper billing methods, and increasing team efficiency

- Chief Editor, BSP** (Apr, 2017 - Apr, 2018): Led a team of **20 journalists** to publish **10+ articles** and **2 newsletters**
  - Awarded **Best Story - Journalism** for article on *infrastructural and policy impacts of skewed sex ratio at IITD*
  - Conducted comparative study of the **credit structure** at 5 IITs, recommendations of which were **presented to Director of IITD**
  - Evaluated **economic impacts** of the opening of an industrial laundromat on washermen operating in IIT campus
  - Conceptualized **Bluffington Post**, a satirical subsection for Inquirer, picking on major events and stories on campus

*Awarded with Significant Contribution to BSP for work done under tenure as Chief Editor and Journalist*

## EXTRA CURRICULAR ACTIVITIES

- Quizzing and Literary:** Secured podium finishes in **10+ quizzing events** at national and institutional level in 3 years
  - National Level: Assisted IIT Delhi QC to **3rd Place** at Nihilanth - Annual Inter IIT-IIM Quiz Fest (2017)
  - Assisted IIT Delhi QC to **2nd Place** at inaugural Inter-IIT Cultural Meet held at IIT Kanpur (2017)
  - Winner, Word Games, Inter-IIT Cultural Meet; **Runner-up**, Aaj Ka Narad, Rendezvous, IIT Delhi (2017, 2016)
  - Winner, SciBizTech Quiz, Fortitude, DTU; **Runner-up**, Qriosity- The General Quiz, Tryst, IIT Delhi (2018)
  - Winner: Word Games, Inter IIT Cultural Meet, IIT Kanpur; **Runner-up**, M.O.C.C. Quiz, Gargi College (2017, 2016)

**Winner:** Overall Trophy at Inter-IIT Cultural Meet, with a significant points contribution by QC, IIT Delhi

  - Institute Level: Nominated captain of one out of 6 league teams in Quizzing club (2017-18)
  - Runner-up**, Occam's Razor, QC, IIT Delhi; **2nd Runner-up**: Occam's Razor, QC, IIT Delhi (2017, 2016)
  - Runner-up**: Fresher's Quiz, QC, IIT Delhi; **2nd Runner-up**: Variety Quiz, League Quiz, IIT Delhi (2015, 2018)
  - Runner-up**: Word Games, Lit Club, IIT Delhi; **Runner-up**: Physics and Astro Quiz, Tryst, IIT Delhi (2017, 2018)



# GAURAV KUMAR



## ACADEMIC DETAILS

| <b>Year</b> | <b>Degree / Board</b>            | <b>Institute</b>                      | <b>GPA / Marks(%)</b> |
|-------------|----------------------------------|---------------------------------------|-----------------------|
| ---         | B.Tech in Mechanical Engineering | Indian Institute of Technology, Delhi | 7.067                 |
| 2015        | B.S.E.B                          | M.R.J.D Inter College, Begusarai      | 83.6%                 |
| 2013        | B.S.E.B                          | B.P High School, Begusarai, Bihar     | 80.8%                 |

## COURSES DONE

Solid Mechanics, Fluid Mechanics, Engineering Thermodynamics, Design Of Machines, Heat And Mass Transfer

# **QUALIFYING EXAMS**

- Joint Entrance Examination (JEE) Advanced Rank: 553 (GE)
  - Joint Entrance Examination (JEE) Mains Rank: 350 (GE)

## PROJECTS

- **Course Projects :**
  - **Heat transfer enhancement in fin and tube heat exchangers using dual pair winglets (Prof. P M V Subbarao)**  
(May, 2017 - June, 2017): *The dual pair delta winglet vortex generators were used for heat transfer augmentation*
    - Prepared **CAD** model of varied parts eg **fin, tube, Dual pair delta winglets** using 3D CAD Design software solidworks
    - Used commercially available software, **Ansys Fluent 16.0** to simulate the heat transfer in the model of heat exchanger
    - Observed heat transfer enhancement with increment in attack angles and validated the same with experimental data
  - **Design and Analysis of convertible staircase trolley (Prof. Jitendra Prasad Khatait)** (July, 2017 - December, 2017) :
    - Prepared **CAD** model of different parts, Performed **FEA**, Material selection to obtain the desired and viable product.
    - Designed staircase trolley of viable material which can be used on flat place as well as in carrying stuffs on staircase
  - **Study of twisted elastic rings and rediscoveries of Michell's instability (Prof. Rama K K)** (June, 18 - July, 18) :
    - Study of Michell's original paper on the stability of the ring and bent wire, Obtained **critical twist** using abstract physics
  - **Equilibrium of a large deflection beam in a hemispherical bowl (Prof. Rama Krishna K)** (July, 2018 - Present) :
    - Study of a large deflection beam, Using Numerical Computation in **MATLAB**, Performing **FEM** to solve mathematical physics problems, Exploring rudimentary physics to get the equilibrium position of large deflection beam under gravity

## **POSITIONS OF RESPONSIBILITY**

- **House Secretary, Nilgiri Hostel** (April, 2018 - Present) :
    - Elected by **500+** residents to lead a **3-tier** team of **6** secretaries, **12** club Representatives and **26** captains/vice-captains
    - Being a member of **House Working Committee** and **House Honor Committee** took several initiatives for the welfare of the hostel, Elected among 500+ residents as **COPMIN Member** to look after ragging related issues in the hostel.
    - Operated separate social media groups to address grievances of 500+ hostel students through online process
  - **Sports Secretary, Nilgiri Hostel** (April, 2017 - April, 2018) :

*Unanimously elected among **500+** residents to lead a **2-tier** team of more than **100** students across **13** sports*

    - Efficiently utilized hostel fund by pitching different vendors for competitive quotations to reduce cost incurred
    - Conceptualized and executed intra hostel sports week, Organized & documented existing sports inventory of hostel

*Conferred with **Outstanding Contribution to Sports Award, 2017-18** for exemplary contribution to sports*
  - **Hostel Cricket Captain, Board for Sports Activities** (April, 2017 - April, 2018) :
    - **Captained** hostel team to represent in inter hostel tournament to witness best performance in past **4 years**.
    - **Organised** fresher's camp, encouraged participation of freshers and **rejuvenated** cricket culture in hostel
    - Held regular interactive sessions with team to develop unity and integrity for improved performance

## TECHNICAL SKILLS

- Design Software** : Ansys, Solidworks, Autodesk, Matlab      **Programming Language** : Basic C, C++

## **EXTRA CURRICULAR ACTIVITIES**

- **Cricket** : Prominent member of IIT Delhi **Inter IIT** cricket team for past two years
    - Member of the cricket team that was awarded **Best team of the year, 2017-18** by BSA, IIT Delhi
    - **Gold Medal**, 1st Position, Inter College Sports Meet, **Inter IIT**, IIT Madras (2017)
    - **Gold Medal**, 1st Position, Mini Inter IIT **Sportech** tournament, IIT Delhi (2017)
    - **Gold Medal**, 1st Position, Invitational Cricket tournament (**Udghosh**), IIT Kanpur (2017)
  - **Intra-hostel** : Organised **10+** sports events in the hostel annual fest 2018 (Ortus 7.0) to find new talents among freshers
    - Actively participated in the decoration of the BHM stall, 2016 which got **2nd** runner up position among **12** other hostels.
    - Spearheaded a team of **40+** students to lead one of the most innovative and enticing hostel day representation.



# JATIN BANSAL



## ACADEMIC DETAILS

| Year | Degree / Board                   | Institute                             | GPA / Marks(%) |
|------|----------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Mechanical Engineering | Indian Institute of Technology, Delhi | 7.282          |
| 2014 | BSER                             | Shiv Jyoti Senior Sec. School, Kota   | 81.00          |
| 2012 | CBSE                             | Varda Smart School, Sikar             | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- **IIT-JEE Advanced 2015:** Secured an All India Rank of 675(GE) out of 1.5 lacs students nationwide in the qualifying exam.
- **Jawahar Gajree Memorial Boys Scholarship, IIT Delhi:** Awarded for excellent performance in academic & cultural activities.
- **CBSE Merit Certificate:** Awarded for outstanding performance and scoring perfect grades in all compulsory subjects.
- **Certificate of Merit:** Awarded for securing the **first position** in Conquest, Britania Inter School Quiz Contest.

## INTERNSHIPS

- **Futures First Info. Services Pvt. Ltd., Gurgaon** (May 2018 - July 2018): *Financial Market and Research Intern*
  - Analysed a live market feed to track ICE Futures Outrights and Spreads & forged financial strategies to boost the yield.
  - Conducted **relative value analysis** to pitch strategies based on volume exchanged & market support/resistance levels.
  - Utilized **mean-variance optimization**, analyzed historical trends and examined graphical patterns to predict the market.
  - Analysed strategies utilizing **Bollinger bands, moving averages, linear regression, RSI** & other technical instruments.
- **Maruti Suzuki India Ltd., Manesar** (May 2017 - July 2017): *Manufacturing System Design Team*
  - Analyzed **100+ Work Instruction Sheet** and **6 Process Sheet** to understand the manufacturing and assembly of the car.
  - Corrected errors in Process sheet and made the process **economically beneficial** to the company and easy to perform.
  - Implemented the changes** to the flow of operation on each station increasing the **efficiency by 1.8%** of production.

## POSITIONS OF RESPONSIBILITY

- **Social Coordinator, Rendezvous'18** (May 2018 - Oct. 2018): *Selected through a 2-stage process to lead a team of 20.*
  - Organized 20+ events, handling 2000+ participants from all over India with a social campaign '**Wajood: Embrace oneself**'.
  - Introduced competitive & interactive events** to attract college students resulting 3 fold increase in PAN India participation.
  - Collaborations with NGOs and CSR wings of MNCs to have a greater public outreach and a stronger social impact.
  - Integrated event-framework with the current theme pioneering workshops, video interview series & interactive sessions.
- **Cultural Secretary, Nilgiri Hostel** (April 2017 - May 2018): *Elected unanimously to lead a team of 15 across 3 boards.*
  - Procured, drafted and effectively utilized the cultural budget; resulting self-sufficiency in hostel's cultural infrastructure.
  - Revamped dance room**; assigned a new room for Inventory Storage resulting **decrement in unwanted expenditure**.
  - Ortus, hostel-fest, **executed a marketing scheme** to procure sponsorship for the first time ever, doubling participation.
  - Podium finishes in: Winner: Inter Hostel Street Play; Runner-up: Music Video Event; Second Runner-up: Oil Painting.*
- **Cultural Secretary, Dramatics Club, Rendezvous'17** (May 2017 - October 2017): *Led a 2-tier team of 50+ volunteers.*
  - Administered marketing and management of events**; Introduced new events (Meme Competition and Dubsmash) in the pre-fest event structure attracting a different section of crowd resulting increased publicity and participation.
  - Forged tie-ups with, Wizard and Asmita theatre group **without any monetary exchange** inviting them to give workshops.
- **Accommodation Coordinator, Tryst'18** (December 2017 - February 2018): *Spearheaded a 2-tier team of 20 students*
  - Conceptualized and executed a strategy to efficiently accommodate participants maximizing the revenue collection.
  - Pioneered '**Tryst Help Lounge**' for reception of guests introducing proper guidelines to ease the registration process.
  - Liaised with security staff to ensure **24-hour surveillance**, to avoid any misplacement; improved efficiency by **trisecting the team**.

## EXTRA CURRICULAR ACTIVITIES

- **Cultural and Sports Activities:**
  - Best Fresher (BRCA Cultural)**: Top most honor at Nilgiri, Awarded for outstanding contribution to cultural activities.'15
  - Winner, Lead actor**: Inter-Hostel Street play, led the hostel to win **Drama Trophy 2015** for the **first time** since inception. '15
  - Winner**: Won 3 Muses **consecutively for two years** and guided hostel to secure **Literary runner-up trophy**. '16, '17
  - Winner**: MNC Faction, Negotiation Table, IIT Delhi for **two years '16,'18**; awarded **Best Delegate** among all teams. '18
  - Winner**: SSJPYPM Cricket Tournament '16 ; SYASS Badminton Tournament '16 ; SYASS Cricket Tournament '17.
  - Runner-up**: SYASS Cricket Tournament '16 ; SSJPYPM Cricket Tournament '17 ; SYASS Badminton Tournament '17.
  - Second Runner-Up**: Conceptualized the design for BHM Stall, led hostel to secure podium finish after 5 years. '15
- **Social Endeavours: J. J. Bahuuddeshiya Shiksha and Seva Sanstha, Sikar** (Dec 2017)
  - Imparted primary education to underprivileged students at daycare center & inculcated interest in mathematics & computers.
  - Analyzed statistical information & identified the most crucial problems faced by students; pitched a study plan to recuperate.
  - Christmas day Celebration: Conceptualized and effectuated entertaining sessions for over 80+ underprivileged students.



# KARTIK GUPTA

## ACADEMIC DETAILS

| Year | Degree / Board                   | Institute                             | GPA / Marks(%) |
|------|----------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Mechanical Engineering | Indian Institute of Technology, Delhi | 8.034          |
| 2015 | CBSE                             | DAV Public School, Amritsar           | 96.4%          |
| 2013 | CBSE                             | DAV Public School, Amritsar           | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- **Research Project:** 'Machine learning methods in medical diagnosis' with Deptt. of Neurosurgery, **AIIMS Delhi** (2018)
- **CBSE Merit :** Awarded the CBSE Merit certificate for getting selected in the national top 0.1% in Mathematics (2015)
- **National Olympiads :** Cleared RMO; Qualified for INMO; National top 1% in NSEP; State Top 1% in NSEC (2014)
- **KVPY Fellow :** Awarded the prestigious fellowship by Dept. of Science & Tech, GOI; attended Vijyoshi Camp (2014)
- **NTSE Scholar :** Awarded scholarship on merit by NCERT (national rank 48); attended the Nurturing Program (2012)
- **DAV scholarship:** Awarded DAV scholarship by securing **National Rank 1** in DAV Talent Search examination (2010)

## INTERNSHIPS

- **Paytm, Payments Bank** (May, 2018 - July, 2018) : *Centralized Operations Team*
  - Performed RCA on the dump data of POS, ATM and EComm failed transactions and aligned it with the **NPCI** guidelines
  - Achieved a significant reduction in the "Insufficient Funds" failures in the bank off us cases to minimize load on **CBS switch**
  - Effectuated a strategic action plan to reduce the **Debit card RTOs** leading to major projected savings (figures sb. to NDA)
  - Received appraisal from the HOD operations & LOR from the allocated mentor for excellent contribution to the projects*
- **Ernst and Young** (May, 2017 - July, 2017) : *Risk Advisory*
  - Singlehandedly worked on an **EY research project**- "The impact of digitization on the Indian and Global market trends"
  - Strategised an operational approach for corporates on how to benefit from the transition; published as a part of **EY reports**
  - Devised an action blueprint aimed to achieve a **two fold cost optimization** for the client (Crystal Crop Protection Ltd.)
  - Received a LOR from the allocated manager for exemplary determination and inquisitive approach towards consulting*
- **UIDAI (Unique Identification Authority of India)** (Nov, 2016 - Dec, 2016) : *Aadhaar program*
  - Innovated for Aadhaar an **e-kyc based venture** with a vision to tackle the problem of large unorganized labor in India
  - Developed the idea into a **market specific** model with the USPs of Aadhaar authentication and Police record verification
  - Received LOR from the Deputy Director General Aadhaar, and an opportunity to implement the project with Aadhaar*

## POSITIONS OF RESPONSIBILITY

- **General Secretary, Mechanical Engineering Society** (July, 2018 - Present) :
  - Leading a **3-tier** team to organise events and oversee logistics, publicity, marketing & industrial relations of the department
  - Conducted **lecture series** by professors, researchers and industry leaders to highlight opportunities after mech engg.
  - Public Relations Secretary Mechanical Engineering Society- Lead a two tier team to amplify the outreach of the society
  - Revamped the MES website to incorporate the **open blogs** by students; organised and **anchored** department freshers
- **Marketing & Sponsorship Coordinator, Tryst'17** (Sept, 2017 - Feb, 2018) :
  - Administered team of 20+ activity heads & 40+ volunteers to raise finances, manage endorsements & media tie-ups
  - Established a first of its kind **centralized database** of branding avenues being updated real time to maximize efficiency
  - Partnered with **Mahindra racing** to display its M4 electric formula car and to set up the first ever simulation **racing zone**
  - Acquired the maximum ever 95% of in cash budget from tech and education sectors only, to give a boost to the events*

## EXTRA CURRICULAR ACTIVITIES

- **Enactus, IIT Delhi(Social Entrepreneurship)-** Building self sustainable business models on social problems
  - **Project Nirmalya**- Implemented the complete waste solution project in Delhi societies for the upliftment of ragpickers
  - Partnered with Govt bodies SDMC & MCD, 8 NGOs & corporate CSRs; Set up 3 community **composting hubs** across Dwarka
  - **Project Titli**- Established micro-enterprises to manufacture low cost sanitary pads and to tackle the existing taboo
  - Runners Up position in the Enactus National Championship among 98 teams held at Taj Land's End, Mumbai 2016*
- **Photography and Film Making-** Elected as the **PFC Representative** Nilgiri Hostel; **Chief Designer** Synapse magazine
  - **Winner**, Design Revolution, first ever league win for Nilgiri hostel since inception of Photography & Films Club, in 2016
  - **Winner**, Graphic Design Competition, Ortus, 2016; **Second Runners Up**, Short Movie Making Competition, Ortus 2016
  - **Winner**, Graphic Design Competition, Ortus, 2017; **Director** of Inter Hostel Movie Making Competitions, 2016 - 2017
  - **Co-founded** Timeline Films IIT Delhi to inculcate the concept of independent creative film making in the institute
  - Conceptualized design of stall representation, winning **Second Runners Up** trophy at **BHM night** after a span of 5 yrs
  - Awarded 'Significant Contribution to Cultural Activities', Nilgiri Hostel, 2016 for igniting the culture among the hostellers*
- **NCC(Air Force Division)-** Awarded the NCC '**A**' **certificate** on performance basis after a 10-days rigorous training camp
  - Selected among the three students in the district as the **Best Cadets** and awarded NCC scholarship by Sahara Group



# MAYANK MAHAWAR



## ACADEMIC DETAILS

| Year | Degree / Board                   | Institute                             | GPA / Marks(%) |
|------|----------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Mechanical Engineering | Indian Institute of Technology, Delhi | 7.318          |
| 2015 | CBSE                             | Macro Vision Academy Burhanpur        | 92.6           |
| 2013 | CBSE                             | DAV Public School Neeljay             | 9.8            |

## SCHOLASTIC ACHIEVEMENTS

- **Indian Statistical Institute, B.Stat. Program** (May '15) | Stood in top 132 candidates in ISI B.Stat. Program entrance test.
- **Korea Advanced Institute of Science and Technology '18** | 'Supply Chain Management,' Dr Bowon Kim, Coursera (Pursuing).

## INTERNSHIPS

- **Business Analyst** | **Mobikwik, Gurgaon** | (Dec 2016 - Dec 2016) | *Worked on two separate projects within a month*
  - Executed **Petroleum liaison project** leading a team of 4, compiled and analysed the financial information of clientele.
  - **Generated** comprehensive reports with analysis, tables and charts to present **client portfolio data** using **Excel**.
  - Conceptualised **Cashless campus project** and organised its grass-root effort in about **20+ colleges and 200+ shops**.
  - Developed and executed **product giveaways** and **promotion contest** to convince the consumer to try digital wallets.
- **Xerox Research Centre India, Delhi** | (May 2016 - July 2016) | *Project run by goEd Technologies Pvt. Ltd. an e-education platform Received Letter of Recommendation for excellent internship work, administrative assistance and business development.*
  - Repass program** | **Head Coordinator** | Program provided online education to students in Bihar for a good social cause.
  - Lead a team of **100** members to create, conceptualise and design **150+** modules of authentic teaching material.
  - **Designed and developed** web landing pages to improve content organisation and user experience using **Unbounce**.
- **TutorSpace Program** | **Researcher** | Flagship initiative in **MOOC**(Mass Online Open Course) education platform.
  - Managed team of 15 members actively handling **big data and analysis** along with testing the beta phase of the program.
  - Utilised **Canvas Instructure** and assisted in managing content of 100+ members with editing and rendering in **Adobe Suite**.
- **NEET2 Program** | Executed plan to increase the outreach; Used **landing page and direct marketing** to increase sales.

## PROJECTS

- **HCCI Engine Design** | Prof. PMV Subbarao | (May 2018 - Present)
  - Modelling an HCCI Engine for optimal performance to reduce emissions using Adaptive Finite Element Method*
  - Improved a current MATLAB model to increase the accuracy of results by using *multi-zone models with 52 reactions*.
  - Conducting analysis and optimisation with **MATLAB, GNU Octave and Python** to evaluate fuel efficiency and emissions.
- **Noise Vibration Harshness (NVH) Analysis** | Prof. Sudipto Mukherjee | (Feb 2018 - April 2018)
  - Analysed NVH data of a Hyundai car and standards for improving ride comfort and quietness of the cabin.*
  - **Analysed** and used **LabVIEW** model to retrieve experimental data using various sensors for real-life riding conditions.
  - Developed a **MATLAB** model to evaluate and interpret the **FFT** of multiple signals to identify significant frequencies.

## POSITIONS OF RESPONSIBILITY

- **Creative Coordinator** | **Open House 2017, IIT Delhi** (Mar 2017 - April 2017)
  - **Lead a four-membered team** in printing and sorting of over **850** project posters while coordinating with **20+** departments.
  - **Designed** a theme for the fest which eventually was used in all visual media such as website posters and certificates.
  - Formulated a **revamped publicity strategy** targeting over 1100 schools which led to a footfall of 6000+ covered in media.
- **House Captain** | **Football, BSA** (May 2017 - May 2017)
  - **Supervised the logistics** of trials, selection, refreshments and awards for all the intra-hostel and inter-hostel competitions.
  - Introduced a revamped and **simplified budget** which was earlier divided into 2 and feedback system for player performance.

## TECHNICAL SKILLS

- **Programming** | MATLAB, GNU Octave, Python, Xcode, C, C++, R, Latex, G-code;    **Softwares** | ANSYS AIM, Autodesk Inventor, Fusion360, SolidWorks, PTC Creo, LabVIEW, CATIA, Latex, ICEM, COMSOL, Gambit, AutoCAD
- **Editing** | Adobe Photoshop, Premiere Pro, After Effects, Illustrator, SnapSeed, iMovies

## EXTRA CURRICULAR ACTIVITIES

- **Skyfi Labs** | Participated in a **startup** based on conducting product design & development exercises with institutions.
  - **AerotriX CNC Machine** (Oct 17): Developed a CNC Machine from scratch using AerotriX kit and **Arduino programming**.
  - **AerotriX Ornithopter** (Nov 15): Developed a flying ornithopter using cardboards and equipment from AerotriX team.
- **Trading** | Actively involved in trading equity and derivatives on **Kite by Zerodha** online portal for past three months.
- **Managed Network Expert** (2018) | Provided online tutoring services in Chegg.com for **Advanced Mathematics** Section.
- **House Maintenance Committee** (2018) | Developing sustainable solutions for hostel maintenance and infrastructure issues.



# MEHUL MURADIA



## ACADEMIC DETAILS

| Year | Degree / Board                              | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech in Mechanical Engineering            | Indian Institute of Technology, Delhi | 7.229          |
| 2015 | Central Board of Secondary Education (CBSE) | Delhi Public School R.K. Puram, Delhi | 91.8%          |
| 2013 | Central Board of Secondary Education (CBSE) | R.R.M.R Public School, Delhi          | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- **UPSC SCRA 2015:** Shortlisted for the interview, being in the top 190 candidates out of 0.12 million appeared
- **Certificate of Merit:** Awarded by CBSE for obtaining a perfect 10 CGPA in Xth standard, being in nation's top 2%

## PROJECTS

- **Design and Manufacturing the Transmission of a Formula Student Electric Car:** (**Sep'16 - Sep'17**)
  - Competed in **Formula Student Germany '17**, being the **only Indian Team** among the 35 International teams qualified
  - Co-developed the gear design by **AGMA theory**, prepared 3D CAD and verified the results by **ANSYS Simulations**
  - Manufactured left/right independent, single speed **Planetary gearbox**, installed with existing electronic differential
  - Boosted theoretical **efficiency** of the gearbox to **91.1%**, Weight reduction by **51.2%** and Size reduction by **64.8%**
- **Numerical Analysis of a liquid drop impact with Solid Sphere (BTP Thesis)** (**Prof. Bahni Ray**) : (**Jul - Dec 2018**)
  - Exploring the surface interactions of solid spheres with liquid drops and analyzing the physics of drop and particle impact
  - Validating test cases of multi-phase phenomenon in **Ansys Fluent** and simulating particle and drop interaction
  - Applications include **spray-drying** and film floatation in industrial processes and **pearl drops** for pharmaceutical purposes
- **Study of twisted elastic rings and analysis of Mitchell's Instability Criteria** (**Prof Rama K. K.**):(**Jun - Jul 2018**)
  - Studied Mitchell's original thesis on the stability of a twisted ring and obtained critical twist using rudimentary physics
- **Reduction of Solar Heat Gain in buildings using Natural Convection** (**Prof. B. Premachandran**): (**Jan - May 2018**)
  - Achieved a theoretical cooling of room premises by **13°C** without any power consumption using buoyancy-driven flow
  - Developed the CAD model of a building section and identified the role of **radiation, convection & conduction** in room heating
  - Modeled the **thermo-fluid** characteristics of the air flow in the inclined **double skin roof cavity** and room premises using **CFD analysis** in **ANSYS Fluent**. Validated the **temperature, velocity** profiles with standard experimental data
- **Design and Analysis of Convertible Staircase Trolley** (**Assistant Professor Jitendra Prasad Khatait**): (**Jul - Dec 2017**)
  - Formulated the trolley design, being capable of transporting goods on a flat surface as well as over a staircase
  - Pioneered the **CAD model** preparation, **Finite Element Analysis** and material selection to obtain a viable product

## POSITIONS OF RESPONSIBILITY

- **Axlr8r Formula Racing** (Jan 2016 - Aug 2017) : International Student Design Comp.; 500+ teams; 75+ nations; held in 9+ countries
  - **Senior Engineer** (Oct 2016 - Aug 2017) - Collaborated with a team of **35+ senior engineers** to design and fabricate a Formula Student (FS) electric car; bagged **International Rank 4** in the **FS Germany 2017** team qualifying quiz
  - Led a team of **5 junior engineers** to construct a **battery cart** (using **Dead Man's switch**) for FS Germany 2017
  - Incorporated **UTM and hardness tests** to verify the material properties, which was used to further optimize the design
  - Mentored junior engineers from the technical team of formula SAE electric vehicle project. Guided them in product modeling and analysis softwares, workshop's tools, types of equipment and components design visualization
  - **Junior Engineer** (Jan - Sep 2016) - Worked with 50+ members and learned about **Powertrain** and **Car Ergonomics**
  - Competed in **FS Germany 2016** with the first-ever Electric **Formula Student Car** of IIT Delhi

## TECHNICAL SKILLS

**Designing Softwares:** Solidworks, Ansys, Autodesk, Matlab, FluidSIM, Mastercam      **Programming languages:** C, C++

## COURSES DONE

Solid Mechanics, Fluid Mechanics, Medical Device Design, Introduction To Economics, Mechanical Engg. Drawing, Energy Systems And Tech., Introduction To Statistics, Design Of Machines, Heat And Mass Transfer, Intro To Operations Research, Numerical Methods& Computation, An Introduction To Literature, Minor Design Project - Vi, Control Theory & Applications, Cad & Finite Element Analysis, Automotive Systems, Manufacturing System Design, Manufacturing Laboratory-ii

## EXTRA CURRICULAR ACTIVITIES

- **Cultural Involvements:** Performing Arts at Institute Level
  - Secured **1st position** in Inter-Hostel **Street Play** Competition and participated in Inter-Hostel **Group Dance** Competition
- **Social Endeavours:** Under the NGO Saamadhan Abhiyan (**June-July 2018**)
  - Worked with a team of 20 people and campaigned for awareness of **Child Sex Abuse** throughout South Delhi
  - **Surveyed 100+ people** to recognize their grievances and interpreted the data to direct the NGO movement.



# MOHIT AGARWAL



## ACADEMIC DETAILS

| Year | Degree / Board                   | Institute                             | GPA / Marks(%) |
|------|----------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Mechanical Engineering | Indian Institute of Technology, Delhi | 7.45           |
| 2015 | AISSCE (Class XII CBSE)          | JVP International School, Jaipur      | 93.4           |
| 2013 | AISSE (Class X CBSE)             | BPS School, Sikar                     | 9.6/10         |

## SCHOLASTIC ACHIEVEMENTS

- Harvard Project for Asian and International Relations (HPAIR):** *Technology & Innovation department* (2018)
  - Accepted amongst **international delegates** from 60 countries to attend a 5-day Asia-Pacific Harvard Conference
- KVPY Fellowship:** Accorded the prestigious scholarship by Department of Science & Technology, Govt. of India (2014)
- International Publications:** Agarwal M. et al '*Cognitive Dissonance & Mitigation Strategies-Restaurant Industry*', IJAMR (2018)
  - Agarwal M. '*NDPs of a membrane-type restrictor in an opposed pad hydrostatic bearing for high static stiffness*', IJAMR (2018)
- Minor Degree - Business Management:** Completed 12 out of 20 required credits from DMS, IIT Delhi (**CGPA-8.5/10**)

## INTERNSHIPS

- PricewaterhouseCoopers Pvt. Ltd. (PwC), Gurugram** (May, 2018 - July, 2018): *Healthcare & Insurance Division*
  - Delivered BI strategy, data governance & module integration, working on a live project for a leading health insurance company
  - Determined 6 data profiling indicators, performing in-depth data quality analysis using **SQL Developer & Power BI**
  - Illustrated **insurance KPIs** to indicate growth and benchmarks, developing 5 dashboards using **Tableau** to visualize data
  - Received 'Letter of Recommendation' (LOR) from Principal Consultant for demonstrating exemplary conduct and performance
- National Tsing Hua University (NTHU), Taiwan, R.O.C** (May, 2017 - July, 2017): *Dept. of Mechanical Engineering*
  - Achieved **maximum stiffness**, by designing & fabricating hydrostatic bearings with multiple pads, membrane & pre-restrictor
  - Optimized key parameters including design restriction ratio (DRR), clearance ratio, stiffness using **MATLAB simulations**
  - Received 'Letter of Recommendation' (LOR) from Professor Shih-Chieh Lin for demonstrating cultural & industrial excellence

## POSITIONS OF RESPONSIBILITY

- General Secretary, Board for Recreational & Creative Activities (BRCA)** (April, 2018 - Present):
  - Elected to lead a 3-tier team of 26 Secretaries & 143 Representatives to conduct 100+ annual cultural events for campus fraternity
  - Remodeled **40-year-old** board structure by introducing nominated executives & coordinators to bridge the gap between tiers
  - Fabricated 'BRCA Flow', **first-ever** online event & finance management portal, achieving **300% process time reduction**
  - Conceived & implemented an automated verification mechanism to vet **10,000+ CV claims**, increasing transparency
  - Pioneered 'BRCA Blog & Library' in collaboration with BSP for interpretive art clubs, achieving **120% increase in outreach**
- Overall Coordinator, Rendezvous 2018** (April, 2018 - Present):
  - Elected to select & lead a 4-tier team of 50+ coordinators & 500+ volunteers to organize North-India's biggest cultural fest
  - Implemented 2-tier QR code based pass system to ensure **100% crowd attendance** in OAT by live crowd monitoring
  - Spearheaded & contracted OAT Sound Proofing, achieving **50% noise reduction** & improved acoustics for pronites
  - Introduced the **Indian Heritage Extravaganza**, a regional arts festival & exhibition in collaboration with 10+ State Bhawans
- Cultural Secretary, Satpura Hostel** (April, 2017 - March, 2018):
  - Conceptualised & structured 'Satpura Cultural Club' to increase participation in all societies; enriched the hostel inventory
  - Administered an annual cultural budget with **42% YoY increase**; secured **maximum podium finishes** in past 5 years
  - Revived hostel fest 'Zephyr', introducing **10+ new** events & award mechanism; published **first-ever** annual magazine, 'Zephyrus'

## EXTRA CURRICULAR ACTIVITIES

- Cultural Activities:** Secured **20+ podium finishes** in professional and institute level competitions
  - Professional & National Level: Represented IIT Delhi in national level talent shows as a part of V-Defyn Dance Society
    - **Winners**, Overall Championship, Inter-IIT Cultural Meet; **Runners Up**, Group Dance Competition, Inter-IIT, Kanpur (2017)
    - **Winners**, Group Dance, IHE, VMMC, Hindu, KMV, LHMC; **Runners Up**, Sri Venkateswara, MNC, LIC, MAMC, SC (2017)
    - **Winners**, Group Dance Competition, BFAB; awarded **The Most Explosive Team** of the Season, among **20+ teams** (2017)
    - **Runners Up**, Western Group Dance, Kaleidoscope, **Rendezvous**, IIT Delhi, among **80+** participating **teams** (2016, 2017)
  - Institute Level: *Choreographed, directed & performed in Dance, Dramatics, PFC, FAC Club competitions*
    - **Winners**, 'Brainwash', Inter-Hostel Stage Play Competition; **Winners**, 'Qaid', Inter-Hostel Stage Play Competition (2015, 2017)
    - **Winners**, Inter-Hostel Stop Motion Video Competition; **Runners Up**, Inter-Hostel Dance Video Competition (2015, 2018)
    - **Winners**, Inter-Hostel Sigil Wall-Painting Competition; **2nd Runners Up**, Inter-Hostel Group Dance Competition (2016 - 2018)
  - Awarded 'Outstanding Contribution to Cultural Activities', Satpura House for overall excellence in 3 consecutive years (2018)
- Case Study & Business Plan Competitions:** Represented IIT Delhi at national level Innovation challenges
  - **Winners**, Battlefield - National Level Data Analytics Case Study Competition conducted by Techkriti, IIT Kanpur (2018)
  - **Runners Up**, Xylomancy - Case Study, Invictus, SME, DTU; **Runners Up** - Case Challenge, Axalta Coating Systems (2018)



# NIKHIL GARG

## ACADEMIC DETAILS

| Year | Degree / Board                   | Institute                             | GPA / Marks(%) |
|------|----------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Mechanical Engineering | Indian Institute of Technology, Delhi | 8.016          |
| 2015 | AISSCE, CBSE                     | Amity International School, Saket     | 96%            |
| 2013 | AISSE, CBSE                      | Amity International School, Saket     | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- Minor Degree, Business Management:** Conferred by Deptt. of Management Studies, IITD, **GPA:9/10**, completed 12/20 credits (2018)
- International Publication:** Garg, Nikhil et al., 'Time Series Forecasting of Producer Price Index, using ARIMA', **IF-7.3**, IJSR (2018)
- HPAIR:** Selected amongst intl. delegates from **40 countries** to attend 4-day Asia-Pacific conference at **Harvard University** (2018)
- Harvard-US India Initiative (HUII):** Selected amongst **international** delegates to attend 2-day policy conference (2018)
- KVPY Fellowship:** Awarded by Deptt. of Science and Technology, Govt. of India for scientific acumen and aptitude (2014)
- NASA ARSSDC:** Runner-up at the Asian level round of the **Space Settlement Design** Competition for **2 years** (2013, 2014)
- Certificate Of Merit:** Awarded for being in the national **top 0.1%** in Mathematics in Class XII CBSE examination (2015)
- National Science Olympiad:** Secured **intl. rank 53** in exam conducted in **14 countries** by Science Olympiad Foundation (2012)

## INTERNSHIPS

- PricewaterhouseCoopers Pvt. Ltd., Mumbai** (May, 2018 - July, 2018) : *Management Consulting Division*
  - Facilitated **client pitches** by preparing internal Intellectual Property decks on IT & digital sector via **revenue streams** analysis
  - Supported proposals on governance model, asset management & compliance framework for multiple international clients
  - Conducted telecom **sector scan**; identified target clients with decreasing subscriber base in **30 countries** via trend analysis

*Awarded Letter of Recommendation from Assistant Manager for exemplary determination & inquisitive approach towards consulting*
- Maruti Suzuki India Ltd., Gurugram** (May, 2017 - July, 2017) : *Operations and Process Control Division*
  - Improved **plant efficiency** by developing **process benchmarking** reports of the braking system for all assembly shops
  - Proposed & implemented **fool proofing** mechanism in multiple assembly lines along with the respective shop managers
  - Enabled **defect reduction** in assembly of Maruti Suzuki Dzire by developing quick fix techniques for identified loopholes

*Awarded Letter of Recommendation from the Deputy Manager of OPC Department for outstanding work accomplishments*
- Inovia Ventures Pvt. Ltd., Noida** (Nov, 2017 - Dec, 2017) : *Marine Consulting Startup, Market Research Division*
  - Assessed **market entry** feasibility for the firm by analysing company capabilities & online repositories using multiple frameworks
  - Determined the **revenue full-potential** of entry into e-boat manufacturing market for tourism by **competitor analysis & market sizing**

## POSITIONS OF RESPONSIBILITY

- Marketing Coordinator, Rendezvous** (Nov, 2017 - Present) : *Led a 3-tier team to raise finances & manage artist tie-ups*
  - Sponsorship:** Stimulated revenue growth by **8%**; secured highest ever title sponsorship in record time (**6% YoY increase**)
  - Increased cash flow by negotiating **90%** advance payments; achieved budget reduction by **17%** via company specific barter deals
  - Strategy & Promotions:** Devised a pan India media plan by associating with Hindu, 9xM, IshqFM, Cinepolis & **15+ magazines**
  - Collaborated with global student organisations for increased outreach; associated with MNCs via social campaign for greater impact
- Events Coordinator, Speranza** (Apr, 2017 - Sept, 2017) : *Spearheaded the flagship event, Rendezvous With Alumni*
  - Formulated a comprehensive strategy for the end to end actualisation of over **10 youth centric events** across 3 days
  - Devised blueprint for 5 mentoring sessions inviting **25+ IIT Delhi alumni** from different occupational backgrounds
- Hostel Representative, Debating Club** (Apr, 2016 - Mar, 2017) : *Conducted 10+ events for 500+ participants*
  - Pioneered a **website** to improve argumentation & expand the club outreach; spearheaded **marketing** efforts to garner sponsorship

*Awarded Significant Contribution to Cultural Activities for excellence across multiple BRCA clubs & uplifting hostel culture*

## EXTRA CURRICULAR ACTIVITIES

- Business Presentations and Case Study Competitions** : *Represented IIT Delhi in 10+ National Level Competitions*
  - Winner**, Ola Mobility Challenge, developed a business plan on mobility in rural markets, E-summit, IIT Bombay (2018)
  - Finalist**, McKinsey's Solvay Business Game amongst **1330 students** from **192 universities** representing **89 nationalities** (2018)
  - Runner Up**, Case Masters, developed survival strategy & determined growth potential of DTH providers, Invictus, DTU (2018)
  - Runner Up**, A Case Odyssey, developed market expansion strategy for a leading FMCG brand, Tryst, IIT Delhi (2018)
  - Second Runner Up**, NSBC v2.0, developed pricing strategy for a platform business model based firm, Consilium, NSIT (2018)
- Debating** : *Represented IIT Delhi at multiple national & institute level debating tournaments across diverse formats*
  - Winner**, Agahi, National Annual Parliamentary Debate , Asian 3x3 PD format, hosted by RGNU Patiala among **34 teams** (2016)
  - Winner**, final round of Mentorship Tournament, IITD, the **biggest event** in the respective academic year, led to 2nd place (2018)
  - Best Adjudicator**, Annual **Inter-IIT** Cultural Meet, IIT Kanpur, contributing towards lifting the Overall Championship Trophy (2017)
  - Adjudicated post break rounds in **5+ institute tournaments**; **Quarterfinalist**, Open Parliamentary Debating Competition (2016)
  - IITPD**: Spearheaded **50+ volunteers** to host **100+ debates** over 3 days; negotiated associations with multiple companies (2016)



# PIYUSH KUMAR SAINI



## ACADEMIC DETAILS

| Year | Degree / Board                   | Institute                             | GPA / Marks(%) |
|------|----------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Mechanical Engineering | Indian Institute of Technology, Delhi | 7.976          |
| 2015 | CBSE                             | St. Anselms Sr. Sec. School, Alwar    | 95.0%          |
| 2013 | CBSE                             | St. Anselms Sr. Sec. School, Alwar    | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- **Research Funding:** Awarded INR 20,000 for project '*Design and Analysis of Off-Grid Cold Storage*' by IRD, IITD ('17)
- **International Olympiad of Science:** Ranked 10 at state level examination, conducted by Silverzone Foundation ('14)
- **Technothlon:** Awarded Gold certificate for securing National rank 36 in Techothlon conducted by IIT Guwahati ('13)
- **CBSE Merit Certificate:** Awarded for getting outstanding academic result by securing perfect 10 in all subjects ('13)

## INTERNSHIPS

- Linenwalas, Singhal Exports** | Manufacturer and seller of textile products in India and abroad (May '18 - Jul '18) :  
*Studied Algorithm A9 and online client behaviour to improve product ranking on Amazon via Digital Marketing techniques*
- Increased sales from \$50k to \$88k in a month by optimizing 18 parent product categories, managing CRM & developing back-link
  - Achieved peak sales of \$9000/day, 4 times avg by launching 3 new products by planning giveaway strategy, SEO & promotions
  - Reduced budget spent per sale on online advertisements by 12% after enhancing PPC sponsored product campaigns
  - Introduced ERP system & applied statistical tools while gaining experience of Amazon, Flipkart, Shopify, Paytm portals
- Received Letter of Recommendation from CEO, Linenwalas for high quality deliverables & exceptional work ethics*

## PROJECTS

- **Design and Analysis of Off-Grid Cold Storage** (May '17 - Jan '18) : *Under supervision of Prof. P.M.V. Subbarao*
  - Assayed a compressor-less & electricity free refrigeration system involving chemical adsorption with no GHG emission
  - Redesigned adsorption reactor with alternate regeneration-production resulting in improved heat-mass transfer & COP > 3
  - Devised mathematical model of refrigeration cycle by LMTD analysis & developed a CAD model of prototype in SolidWorks
- **Dust Suppression by Sprays** (Jul '18 - Present) : *Under supervision of Dr. M. Kumar & Dr. D. Dasgupta*
  - Developing spray based technology to combat air pollution by suspended particulate matter in Delhi as a part of MHRD project
  - Experimenting with additives & nozzles parameters to coagulate charged particles by simulating air flow in ANSYS Fluent

## POSITIONS OF RESPONSIBILITY

- **Infrastructure Coordinator, Rendezvous'18** (Apr '18 - Oct '18) :
 

*Spearheaded a 3-tier team of 20 members to manage all real time infrastructure & inventory requirements of the fest*

  - Formulated extensive scheduling of 100+ events spanning over 4 days to facilitate management across 20 venues
  - Optimized branding space & resource allocation for 50+ stalls for sponsors by coordinating with marketing team & vendors
  - Planned judicious electricity allocation leading to reduction in cost & wastage; ensured quick resolution of electricity issues
- **Director, Institute Choreography Society, Dance Club, BRCA** (May '17 - May '18) :
 

*Led a team of 25 students as protagonist achieving 1st position in Rendezvous'17 by conceptualizing theme Rashmirathi*

  - Headed the team to podium finish in Mood Indigo'17, Asia's largest cultural fest & increased inter-college participation 2-fold
  - Revamped publicity of society by organizing first ever dance workshop, launch on social media & improved inter-college PR
  - Remodelled the logistics management to incorporate stage props & innovative costumes within a shoestring budget
- **Cultural Secretary, Satpura Hostel** (Apr '18 - Present) :
  - Sketched schedule for 40+ interactional workshops, events & competitions; put up successful show of House Day 2018
  - Assisted in tailoring of annual cultural budget along with overall budget by ensuring resource based division for each club

## EXTRA CURRICULAR ACTIVITIES

- **Dance: Panel Member, Dance Club:** Nominated for making club decisions, organizing events and formulation of rules ('18)
  - **Winners**, Rendezvous, Choreography dance competition, among 10+ colleges with theme Unsung heroes (National) ('16)
  - **Runners up**, Mood Indigo, Indigo Saga, best ever finish by IITD in dance in Asia's largest cultural fest (National) ('16)
  - **Runners up** Interhostel Group Dance('16) **2nd Runners up** Interhostel Group Dance('17) **Runners up** Dance Video ('18)
  - Awarded Significant contribution to the dance club, highest commendation in extra-curricular activities in IITD ('17-'18)
- **Management:** Selected as a representative of COPMIN, for promotion & monitoring of interaction ('18)
  - **Mentorship, SMP:** Guided 5 freshers ensuring smooth transition into college & performed interactional activities ('17)
    - **Orientation, IITD:** Assisted coordinators in smooth functioning of sessions for 850+ freshers for academics & counselling ('17)
  - **Hospitality Coordinator, Delhi Poetry Festival:** Orchestrated travel & accommodation of 150+ participants & artists ('18)
  - **Activity Head, Sportech:** Aided coordinators in social publicity by visiting NAB & old age home, organizing events for 100+ people ('17)
  - **Zephyr Satpura Cultural Fest, BHM Stall Making :** Organized events & handled logistics in setting up successful stall ('16)



# PULKIT AGARWAL



## ACADEMIC DETAILS

| Year | Degree / Board                   | Institute                             | GPA / Marks(%) |
|------|----------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Mechanical Engineering | Indian Institute of Technology, Delhi | 7.386          |
| 2015 | HSC, Maharashtra                 | Pace Junior College                   | 93.4%          |
| 2013 | CBSE                             | Apeejay School                        | 10             |

## SCHOLASTIC ACHIEVEMENTS

- Qualified CFA Level 1; enrolled for Level 2.
- INSPIRE Scholarship : Conferred upon top 1% students for exceptional performance in Maharashtra Board.
- Runner-up TCS IT Wiz - tech-biz quizzing event organized by TCS in the Mumbai-region.

## INTERNSHIPS

- Investment Banking, ICICI Securities** (May'18 - July'18) -
  - Researched businesses and presented company profile for various firms in the BFSI sector.
  - Created comparables sheet for the BFSI sector using available financial information.
  - Learned using Venture Intelligence, Bloomberg Terminal and BSE/NSE websites for gathering financial information.
- Corporate Finance, Deloitte Touche Tohmatsu LLP** (May'17 - July'17) -
  - Assisted on the firm's first Insolvency project - Project Mango.
  - Developed a scheme for documenting, analyzing and verifying claims of financial and operational creditors.
  - Assessed available financial information and forecasted significant trends in the Healthcare industry.
- Content Developer, makeageek.com** (July'16 - Sep'16) -
  - Developed Mathematics content including 3-tier increasing difficulty questionnaires.
  - Marketed and collaborated with schools to associate with the website in return for 1-months free subscription.

## POSITIONS OF RESPONSIBILITY

- Maintenance Secretary, Satpura Hostel** (Apr'17 - Apr'18) -
  - Spearheaded a 2-tier team of 6 government employees and 8 students to manage a hostel of 500+ residents.
  - Redesigned hostel reception and common room areas.
  - Coordinated with other committees for solving pending chronic problems

## EXTRA CURRICULAR ACTIVITIES

- Social endeavor** - Member, Reaching Sky Foundation: Contributed to the project Sabka School by developing study material.
- Hostel Activities** -
  - Drama : Winners, Inter-Hostel Stage Play'16.
  - Dance : Runner Ups, Inter-Hostel Group Dance Competition'16.
  - Football : Runner Ups, Inter-Hostel Football Championship'16.
  - Hostel Fest Zephyr : Organized 20+ events in 3 days, honing skills of 100+ students for Institute-level participation.

## TECHNICAL SKILLS

- Finance** - MS Office, Bloomberg Terminal, Venture Intelligence, Capitaline, Thomson One Banker, VBA
- Engineering** - Autodesk, AutoCAD, Solidworks, ANSYS
- Coding** - C++, HTML, Python, R



# RAVI CHOURHARY



## ACADEMIC DETAILS

| Year | Degree / Board                   | Institute                             | GPA / Marks(%) |
|------|----------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Mechanical Engineering | Indian Institute of Technology, Delhi | 6.754          |
| 2014 | CBSE                             | Delhi Public School, Jodhpur          | 93.6%          |
| 2012 | CBSE                             | Delhi Public School, Jodhpur          | 9.8/10         |

## SCHOLASTIC ACHIEVEMENTS

- International Publications:** Authored two research papers in International Journals this year
  - Ravi Choudhary, et al., "Affinity Propagation on Time Series"; IJTRD (Accepted); **Impact Factor: 4.865** (2018)
  - Ravi Choudhary, et al., "Measurement of High Temperatures using Optical Pyrometry"; IJET (Accepted); IF: 3.54 (2018)
- Industrial Research & Development Funding:** Awarded funding of INR 2 lakhs for 1234 Discover & Learn Project (2018)
- MHRD Appreciation letter:** Recognized for dedicated hard work & commitment by Hon'ble Minister, **Smt. Smriti Irani** (2014)
- Letter of Recommendation:** Received from Dr. Vipin Kumar, **William Norris Chair**, C.S., University of Minnesota (2018)

## INTERNSHIPS

- University of Minnesota, USA** (May, 2018 - July, 2018) : Department of Computer Science and Engg.  
*Analyzed global spatiotemporal data from environmental science to assess & understand the impacts of climate change*
  - Formulated & implemented pipeline to apply Affinity Propagation clustering algorithm on 43670 global lake time series
  - Discovered Climate Change patterns using Pearson coefficient as similarity measure for the developed Clustering Model
  - Effectuated data extraction & executed geospatial data processing to prepare training set for Building Detection Model
  - Commended for discovering interesting patterns in large dataset of great societal relevance for past several decades
- JCB India Limited, Ballabgarh** (May, 2017 - July, 2017) : Department of Learning, Development & Tech. Management
  - Standardized the factory returns and licenses by designing advanced Time Office and creating procedural manual
  - Improved plant efficiency by 1.25% through introduction of mobile application to rectify attendance related procedures
  - Reduced 30% workload of employees at Time office by designing Optical Mark Recognition (OMR) system for data entry

## POSITIONS OF RESPONSIBILITY

- Coordinator, Board for Student Welfare** (April, 2018 - Present) : Leading 2-tier team of 140+ representatives
  - Selected & trained 140+ mentors, sensitizing them towards the mentorship protocol & requirements of first-year students
  - Initiated Career Counselling by creating comprehensive repository to inspire and facilitate unconventional student ventures
  - Revamped Language Mentorship program introducing workshops in collaboration with Toastmasters International NPO
  - Organizing first ever Student Alumni Mentorship Launch event aiding students to build networks & pursue fields of interest
  - Established career related mentorship bridge by working in collaboration with alumni from MIT, Google, Microsoft
- Mentorship Secretary, Board for Student Welfare** (May, 2017 - April, 2018) :
  - Initiated Academic Mentorship for realization of quintessential balance in academic culture & extracurricular activities
  - Redesigned freshers' orientation by collaborating with IITD OnAIR to make exhibits, activities & sessions accessible online
  - Successfully increased accessibility of student counseling services to over 750 users through online tools such as YourDost
- Executive Team Member, Speranza 2017** (April, 2017 - September, 2017) :
  - Spearheaded 50+ members for conducting broad spectrum of over 20 youth events targeting large audience from all sections
  - Effectively administered and allocated the festival budget; 20% cost-cutting by efficient fund allocation and bill clearance

## EXTRA CURRICULAR ACTIVITIES

- Dramatics:** Active Member of 'Ankahi', a student-initiated social theatre group for three years of IIT Delhi
  - Winner, Rendezvous National Level Street Play Competition, 'Mimansa'; director and actor, The Uncounted 3.5 Crores (2016)
  - Podium Finish, Lead role & Performances in over 20 play performances at professional, national & institute level (2018)
  - Winner, Best Play, Inter Hostel Stage Play, BRCA, acted & directed 30 minutes mono act play 'Brainwash' (2016)
  - Winner, Best Direction, Inter Hostel Stage Play, BRCA, special mention for shadow act, first of its kind in IITD (2017)
  - Runner-Up, Inter Hostel Stage Play, BRCA, acted, directed and speculated the play 'Rafiq Miya ki Mayiyat' (2017)
  - Instrumental in winning the Hostel's first ever 'Best Hostel Participation' Trophy in Dramatics Club in 13 years (2017)
- Other Cultural Activities :**
  - Winner, at Inter-Hostel Stop Motion Video Making Competition, Photography and Film Club, BRCA IITD (2016)
  - Runner-Up at Inter-Hostel Group Dance, among total 13 teams, for the first time in the history of Satpura House (2016)
  - Second Runner-Up, Inter-Hostel Group Dance Competition, Board for Recreational and Creative Activities, IITD (2017)
- Social Endeavors:**
  - Worked in liaison with IIT Delhi administration to launch a social campaign against the tenacious problem of drug abuse
  - Successfully conducted activities such as trips and soft-skill training workshops benefitting the IIT Delhi community
  - Launching Mental health awareness campaign with the vision of transforming IITD community into stigma-free environment



# SAURABH KUMAR



## ACADEMIC DETAILS

| Year | Degree / Board                   | Institute                             | GPA / Marks(%) |
|------|----------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Mechanical Engineering | Indian Institute of Technology, Delhi | 6.847          |
| 2015 | CBSE                             | L.B.S Sr Sec School                   | 89.6%          |
| 2013 | ICSE                             | Madhusthal Vidyapeeth                 | 93.4%          |

## SCHOLASTIC ACHIEVEMENTS

- **MOOC** : Awarded certificate, **Machine Learning** by Stanford University Prof. Andrew Ng, graded **95.7%** of score (2018)
- **Int'l Publication**: Authored two international papers in field of *Numerical Computation* and *Marketing Management*
  - 'Time Series Analysis of Shampoo Sales', International Journal for Science and Research, **Impact Factor - 7.294**(2018)
  - Saurabh et al 'Linear Regression Analysis of environmental effects on speed of sound', IJSR **Impact Factor-7.296**
- **MCM Scholarship**- Selected for scholarship among 800+ students over academic excellence by Gov. of India(2015-2016)

## INTERNSHIPS

- **DoubtNut (Class 21A Technologies Private Limited)** (May, 2018 - June, 2018): *Content Developer*
    - Worked on creating Mathematics Video content for the *application*; explained mathematics concepts & problem solving
    - Learned to use *ASCII MATH* and *MS-Excel* - to track progress on his targets and better assignment of questions to do.
  - **GoParento Pvt. Ltd., Gurugram (Incubated by Facebook)** (February, 2018 - March, 2018) : *Front-End Development*
    - Designed the front-end of the website using *HTML*, *custom CSS* and *Bootstrap* front-end framework application
    - Introduced features like event *cards* and *carousel* for making website more user friendly and informative for the users
- Conferred **Letter of Recommendation** from Co-Founder for displaying utmost dedication & exemplary working ethics

## PROJECTS

- **Machine Learning application projects** :(June, 2018 - August, 2018) Prof. Andrew Ng
  - Implemented collaborative learning algorithm, applied to a dataset of movie ratings developing a **Recommender System**
  - Implemented logistic regression and neural networks on a large training set of digits to **recognize hand-written digits**
- **Numerical Methods and Computation for Linear/Non-Linear Problems** (Sept, 2017 - Oct, 2017) : Prof. VVK Srinivas
  - Efficiently implemented Numerical Differentiation/Integration, Least Squares approximation algorithms on **MATLAB**
  - Included appropriate **Error models** for complete and robust numerical **analysis** of *Linear/Non-Linear* problems

## EXTRA CURRICULAR ACTIVITIES

- **Fine Arts and Crafts club**: Inter-Hostel Charcoal Painting, '*Shunyata*'- a lady devoid of expression, **II position**(2015)
- **Photography and Filming Club**: Inter-Hostel music video competition, *Zindagi* (story of 4 friends)- **I position** (2016)
- **Dramatics Club** : Part of the club for 3 years - worked as an actor, director and writer with **Ankahi Drama Society of IITD**
  - **Best Actor & Winner**, Inter Hostel Mime Competition; performing '*Plan-X*' & '*Jugalbandi*' - **written and directed** (2017)
  - **Winners**, Inter-hostel Mono-Act; '*Meherbani*' & '*Tenali Rama*'- 2 characters, 2 stories, **conceptualized & directed** (2018)
  - **II Runner up**, Inter Hostel Street play event, Lead actor, Director & Script writer - '*Pinjra*' (2015) & '*Chakravyuh*' (2018)
  - **II Runner up**, Inter Hostel Street Play Competition, performing '*Tu Chal*' - Lead Actor, **Director & Script Writer** (2016)
- **National / Inter IIT**: Participated at both the events as actor, director and playwright- each time **qualifying to the finals**
  - **Overall Championship & Drama Trophy**- at *Inter IIT Cultural Meet*- significant contributor to the **victory**(2017)
  - **Best Set Design** and **II Runner Up** winner stage play '*MIX VEG IN HOT GARLIC SAUCE*'- a **satirical comedy drama**
  - **Lead Actor**, in the psychological drama '*Man Ke Bhawar*'- the much appreciated play **qualifying** to the **final top 6**
  - **Lead Actor**, '*Deluxe Hair Cutting Saloon*' applauded by the judges for the performance at **Inter-IIT Cultural Meet** (2017)

## POSITIONS OF RESPONSIBILITY

- **Director, Dramatics Club, BRCA** (March, 2017 - March, 2018) : *Head of all national level plays by IITD Drama Society*
  - Led and trained a contingent of **30**, auditioned from **13** hostels in professional drama workshop for **30 days** (2017)
  - Directed the **BRCA orientation** play '*Ek Mamooli Aadmi*' a black comedy drama performed by **self-trained actors** (2017)
- **Logistics Coordinator, Delhi Poetry Festival** : *Organized all the events of the largest poetry festival held in India* (2018)
  - Optimized branding space and resource allocation for sponsors by coordinating with marketing team and vendors.
  - Formulated extensive scheduling of 30+ events spanning over 3 days to facilitate management across different venues.
- **Hostel Representative, Dramatics** (April, 2016 - August, 2016) : *Elected unanimously by 400+ residents of Shivalik house.*
  - Conducted 20 & 10 days workshop; **2 fold** increase in freshers' participation & **podium finishes** in 2 out of 3 events
  - Instrumental in winning **BRCA runner up trophy** awarded to hostel with second most points in BRCA points tally (2016)
- **Panel Member, Dramatics Club** (April, 2018 - April, 2019) : selected as **1 out of 5 Advisory Panel of Ankahi Drama Society**

Awarded **Best Fresher' BRCA** & **The Spirit of BRCA** both being the highest of honor given by the board (2016) & (2018)



# SAURAV KUMAR GUPTA



## ACADEMIC DETAILS

| Year | Degree / Board                   | Institute                             | GPA / Marks(%) |
|------|----------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Mechanical Engineering | Indian Institute of Technology, Delhi | 7.261          |
| 2015 | CBSE                             | SHIVAM INTERNATIONAL SCHOOL           | 86.6           |
| 2013 | CBSE                             | SHIVAM INTERNATIONAL SCHOOL           | 9.0/10         |

## COURSES DONE

Linear Algebra & Diffe. Equa., Intro. To Computer Science, Calculus, Introduction To Statistics, Intro To Operations Research, Numerical Methods& Computation, Control Theory & Applications, Cad & Finite Element Analysis

## IIT DELHI THESIS

- **Title:** Thermodynamic Simulations of Reactivity Controlled Compression Ignition RCCI Engine cycles Supervisor:
- **Supervisor:** Dr. PMV Subbarao, Mechanical Engineering Department, IIT delhi
- **Description:-**To compare the results obtained from a modified RCCI engine with experimental data (July, 2018- Present)
  - Constructing a feasible model for simulating the RCCI engine using **heat transfer**
  - Improving existing simulation models of RCCI Engine implementing **numerical methods** on MATLAB -
  - Executing **forward difference numerical** scheme to estimate crank angles at various stages of combustion

## PROJECTS

- **CFD Analysis of flow in a container,( Prof Jatindra K. Sahu)**( May, 2017 - July ,2017) :
  - Analysis of flow in differently shaped container when a rotating propeller shaft is used.
  - **Analytical calculation** to find boundary shear force for laminar flow for axi-symmetric shapes like conical ,cylindrical and spherical container.**CFD** Analysis By changing some parameters the shaft shear force at boundaries of the container were observed.
- Course project-----
- **Simplex Method for Resource Optimization Prof. Kiran Seth**(oct-2017)
  - Implemented in **C++** the Simplex Method's algorithm to **optimize** resource variables in given Linear Prog. Problems
  - Inculcated extensions like Dual Simplex, Revised Simplex to **decrease** overall **time-order** complexity of the algorithm
- **Numerical Methods and Computation for Linear/Non-Linear Problems prof. V.V.K. Srinivas**(Sept, 2017 - Oct, 2017)
  - Efficiently implemented Numerical Differentiation/Integration, Least Squares approximation algorithms on **MATLAB**
  - Included appropriate **Error models** for complete and **robust** numerical **analysis** of *Linear/Non-Linear* problems
- **Information theory and stock market Prof S.DharamRaja** (March, 2017 - April, 2017) :
  - Studied development of important theories in stock market investing by focusing on information theory related work.
  - Topic included modern **portfolio theory,Capital Asset pricing Model,Log optimal portfolio,Kuhn-Tucker Characterization of The log-Optimal portfolio.**
- **C++ code to find the triangulation of point** (Mar, 2016 - March, 2016) :

## TECHNICAL SKILLS

- **programming languages:**C/C++(prior experience),python(basic),R(basic)
- **Design/simulation softwares:**Solidworks,Autocad,ANSYS,MATLAB,FluidSIM,LabVIEW,CATIA(basic),ABAQUS(basic)

## QUALIFYING EXAMS

- **Joint Entrance Examination (JEE) Advanced Rank:** 386 (OB)

## SCHOLASTIC ACHIEVEMENTS

- **Goal Talent Search Examination:** Secured state rank **7** in **2013** conducted by **prabhat khabar**
- **Goal Talent Search Examination:** secured state rank **10** in **2014**.

## EXTRA CURRICULAR ACTIVITIES

- **Fine Arts & Crafts Club:**
  - **Winner, Third Position** in Inter Hostel **Charcoal Painting** among 13 Hostels & 80 Participants (2015)
- **Photography and Film Club:**
  - **Winner, First Position** in Inter Hostel **Short Film Making** Competition amongst 13 Hostels (2016)
  - **Winner, Third Position** in Inter Hostel **Music Video** Competition amongst 13 Hostels (2016)
- **Hindi Samiti:**
  - **Event Management, Hasya Kavi Sammelan** The flagship event of Cultural Festival, **Rendezvous** featuring eminent artists like Rahat Indori, Mumtaz Naseem, Azatshatru; After the pronites, it was the biggest crowd puller Event (2017)



# SHASHWAT SINHA



## ACADEMIC DETAILS

| Year | Degree / Board                              | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech in Mechanical Engineering            | Indian Institute of Technology, Delhi | 8.547          |
| 2015 | Central Board of Secondary Education (CBSE) | Campion School, Bhopal                | 94.1           |
| 2013 | Central Board of Secondary Education (CBSE) | Campion School, Bhopal                | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- Kishore Vaigyanik Protsahan Yojana (KVPY):** Conferred with KVPY fellowship, **Department of Science and Technology, AIR 666 (2014)**
- International English Olympiad:** Secured **International rank 34** in IEO exam conducted by **Science Olympiad foundation (2011)**
- National Standards Examinations:** Chemistry **top 1% in state**; Astronomy **State rank 17**, conducted by **HBCSE, TIFR (2014)**
- IAIS Exam:** Mathematics, Computer Science & English, **State topper (2012)**; Mathematics & Science, **State topper, UNSW Australia (2013)**

## INTERNSHIPS

- Hindustan Unilever Limited, Khamgaon, SCM** (May, 2018 - July, 2018) : *Automation in cast soap molding and EGA reduction*
  - Developed **manpower deployment** strategy, considering several alternatives for **logistics** and **automation** for molding operation
  - Delivered annual savings of **INR 3 crores** through a **76%** reduction in manning and **23%** increase in labor productivity
  - Conducted **root cause analysis** of significant factors influencing EGA; **benchmarked** EGA with industry standard
  - Devised DOE to gather key insights and studied trends across **10+ soap variants**; delivered **0.5%** increase in gross margin for soaps
- Konsalidon, Management Consulting** (Dec, 2016 - Feb, 2017) : *Virtual Internship*
  - Analyzed trends like **revenue** and **demographics** pertaining to **200+** consulting firms in various sectors through CRM software
  - Developed implementation strategy for projects on **Megatrends, Competency models** and **Web/App development**
- Find Your North, Center for Public Leadership, Harvard University** (June, 2017 - Aug, 2017) : *Virtual Internship*
  - Assessed **Indian Labor Market** using statistics and trends; developed a **conceptual framework** to get insights into key stakeholders
  - Conducted in-depth **competitive analysis** of products and services in career service space of **7+** competitors
  - Analyzed **pricing structure** and **revenue models** mapping out strengths, weaknesses and opportunities for intervention

## POSITIONS OF RESPONSIBILITY

- Overall Coordinator, Makerspace IITD** (March, 2018 - Present) :
  - Led a team of coordinators & executives to conduct institute level events throughout the year; Managed **infrastructure development**
- Publicity and Creativity Coordinator, eDC IIT Delhi** (December, 2017 - April, 2018) :
  - Led a **two tier team** of executives and campus ambassadors to organize *BeCon '18* with **pan-India delegates**
  - Developed and Executed a **publicity strategy** for multiple platforms; Increased the outreach by **300%** and participation by **25%**
  - Organized *Impiego '18*, the Internship and Job fair to boost the startup ecosystem by providing job opportunities at campus
  - Collaboratively organized *Fireside Fireside chat with UBER CEO, Dara Khosrowshahi*, attended by **1000 delegates (2018)**
- Events and Marketing Coordinator, Makerspace IITD** (Jan, 2018 - March, 2018) :
  - Led a team of executives to organize events for the club during the semester; **Negotiated** prizes and infrastructure requirements with *Tryst '18*
  - Conceptualized, planned and organized *Crypt-o-Lock*, an event related to **ideating** and **manufacturing** a coded lock during *Tryst '18*
  - Organized an **institute level orientation** with **40+** attendees and guided aspiring members about activities of the club
- Hospitality Coordinator, Sportech 2018** (Nov, 2018 - Feb, 2018) :
  - Led a two tier team with **10+ Activity Heads** to plan and manage hospitality requirements; *Implemented a 24x7 helpline facility*
  - Managed accommodation, logistics and procurement of refreshments for over **50+ teams in 12 sports with 500+ participants**
- Executive, Economics Club** (July, 2016 - April, 2017) :
  - Organized, with a team of **27** executives and coordinators to conduct **IITD Youth Parliament** with more than **100 delegates**
  - Mobilized the IITD community in a **two-week long Digitally Friendly IITD** campaign to prioritize cashless transactions in the campus
  - Collaborated with **economics societies** of other colleges in the city to organize events and handled **social media** handles of the club

## EXTRA CURRICULAR ACTIVITIES

- Robotics:** Member of **Robotics Club IITD** for 3 continuous years; Worked with an interdisciplinary team of 25 students and faculty coordinators
  - Collaboratively conducted **institute level workshop** with more than **200 participants** based on basic robotics concepts
  - Speaker representing the club at institute level orientation with **300+ attendees** and **Open house** with cross country attendance
  - Represented IIT Delhi and competed with **20+ teams at national level** Manual Robotics competition at IIT Madras during Shaastra 2016
- Cultural Activities:** Runner up, Intra-hostel Freshers Quiz; Top 8, Institute Fresher's Quiz; Top 10, BRCA Vacanza, **National level quiz**(2015)
- Case Study Competition:** Awarded **Certificate of Excellence** for stellar performance in National Level B-plan Competition, Sashakt, Tryst '18
- Events Activity Head, Rendezvous '17** (July, 2017 - Oct, 2017) :
  - Organized prelims for *Spectrum* and *Blitzkrieg* competitions across **4 major cities** with **100+ participating bands**
  - Collaborated with green room crew to manage **pro-night** events with **5000+ attendees** to manage high profile artist performances.
  - Conceptualized and conducted events in **first mini RDV** outside campus at **2 locations** in colleges at Delhi University



# SHUVANG JANDIYAL



## ACADEMIC DETAILS

| Year | Degree / Board                   | Institute                             | GPA / Marks(%) |
|------|----------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Mechanical Engineering | Indian Institute of Technology, Delhi | 8.224          |
| 2015 | CBSE                             | K.C. International School             | 93.4%          |
| 2013 | CBSE                             | K.C. International School             | 10.0           |

## SCHOLASTIC ACHIEVEMENTS

- Qualified for **KVPY scholarship** (2014) with an **A.I.R 492** and **State rank 1**; **NTSE Scholar** with **State Rank 1** (2011)
- International Maths Olympiad : International rank 4** (2014), **International rank 40** (2013), **International rank 60** (2015)
- National Science Olympiad : International rank 27** (2015), **International rank 32** (2014) along with **Zonal rank 1** (J&K and Himachal)
- Award of Excellence** for outstanding academic achievements in state by **Shri Omar Abdullah**, then CM of J&K (2013)
- NSTSE : National rank 107** (2014); **JKCET : State Rank 1** in J&K's engineering entrance exam amongst 15,000 students

## INTERNSHIPS

- Futures First Pvt. Ltd.** (May, 2018 - July, 2018) : *Financial Market & Research intern*
  - Analyzed a **live market feed** to track the ICE Futures **Outrights and Spreads** to get better insight with instant anomalies
  - Monitored news flow through **50+ papers** & macroeconomic fundamentals to independently formulate **optimum strategies**
  - Constructed new strategies utilizing *Bollinger bands, Fibonacci retracements, linear regression, RSI* & other technical indicators

## PROJECTS

- Simplex Method for Resource Optimization** (Aug, 2017 - Sept, 2017) : *Course project under Prof. Kiran Seth*
  - Implemented in **C++** the Simplex Method's algorithm to **optimize resource variables** in given Linear Programming Problems
  - Inculcated extensions like *Dual Simplex, Revised Simplex* to decrease overall **time-order complexity** of the algorithm
- Country of Origin Effect on brand equity** (February, 2018 - April, 2018) : *Course project under Prof. Mahim Sagar*
  - Analyzed the impact of country of origin on **brand equity** & **product valuation** from the perspective of consumers worldwide
  - Examined different strategies used by companies to utilize or overcome country of origin effect to **maximize their profit**

## EXTRA CURRICULAR ACTIVITIES

- Sports** : Represented IIT Delhi across **10+ national tournaments**; Member of the Inter IIT sports contingent for 2 years
  - Hockey** : Secured **10+ podiums** at various levels, including **3 Gold, 1 Silver & 3 Bronze medals** at **national level** **Gold Medal** in *Inter IIT sports meet 2016, Sportech 2018, Sangram 2018, IITD Hockey Premier League 2017 & 2018* **Silver Medal** in *BOSM 2017; Bronze Medal* in *Spardha 2016, Udghosh 2017, Sportech 2017; 4th* in *Inter IIT 2017 Winning Captain* and **Top Scorer** of *IITD Hockey Premier League; Top Scorer* of Inter hostel tournament in 2017 & 2018
  - Football** : **Bronze Medal** in *IITD Football Premier League 2018; Cricket* : **Gold Medal** in *intra hostel tournament in 2017 & 2018*
  - Awards** : **Institute Colours, BSA IIT Delhi (2017) & Outstanding Contribution in Sports Activities, Shivalik Hostel (2018)**
- Cultural Activities** : Won and conducted various events and quizzes in diverse cultural fields at **national and institute level**
  - Hindi Samiti, BRCA** : Created the new structure of club for promoting Hindi language by opening up Hindi Society, **Kaarvaan Quiz Master** of **national level** competitions : **Aaj Ka Naarad**, Hindi Mythology Quiz, in *Rendezvous 2016, Shabdvyuh, Hindi Word Games*, in *Rendezvous 2017, Prashna Baan, Online Hindi Puzzles*, in *BRCA Summer Vacanza 2017 & 2018 2nd Position* : **Hindi JAM, Anuvaad (2017); 3rd position : Chakravyuh (2018); 1st position** : Intra hostel **Scrabble Awards** : **Best Representative, Hindi Samiti, (2016) & Significant Contribution in Cultural Activities, Shivalik Hostel (2017)**
  - Best Delegate Award in Delhi International Model United Nations** (Govt Of Delhi) 2018 in UNHRC, INDIA convened for 3 days

## POSITIONS OF RESPONSIBILITY

- Events Coordinator, Sportech** (October, 2017 - February, 2018) : *Annual sports festival of IIT Delhi*
  - Part of a **4 tier team** to execute the IIT Delhi's annual sports festival, Sportech, with participation of over **1500 sportspersons**
  - Raised resources and managed participation for **17 major sports tournaments** across span of 4 days; Ensured **alumni participation**
  - Planned successfully, the participation of IIT Delhi hockey team in **two tournaments** being held during the same period
- Panel Member, Hindi Samiti, BRCA** (April, 2018 - Present) : *Selected to guide the club members because of expertise in past*
  - Hindi Society, Kaarvaan** : Initiated the formation of **1st ever Hindi Society** of IIT Delhi to promote the culture of Hindi
  - Remodeled the structure & nature of the events focusing on increasing the participation & **reintroducing club trophy** for best hostel
  - Formulated various policies for the club prioritizing the events to be carried out in Rendezvous 2018 & in upcoming years
- Representative, Hindi Samiti, BRCA** (April, 2016 - April, 2017) : *Elected unanimously from 400+ residents* of hostel
  - Conducted various workshops to spread & cultivate the culture of Hindi; Handled the **annual hostel budget** of the club
  - Led the hostel team to win various competitions for Shivalik hostel thus **winning club trophy & BRCA runners up trophy**
- Student Mentor, BSW** (July, 2018 - Present) : *Selected to guide and help the new students coming to IIT Delhi*
  - Guided first year students to ensure smooth transition into IIT Delhi, ensuring their comfort & preventing any stressful interaction



# AAKASH VERMA



## ACADEMIC DETAILS

| Year | Degree / Board                                | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech in Production & Industrial Engineering | Indian Institute of Technology, Delhi | 6.09           |
| 2015 | CBSE  | St. Columba's School                  | 89.8%          |
| 2013 | CBSE  | Ramjas School, Pusa Road              | 10 GPA         |

## COURSES DONE

Linear Algebra & Diffe. Equa., Calculus, Introduction To Statistics, Metrology & Quality Assurance, Intro To Operations Research, Stochastic Modelling & Simula., Numerical Methods& Computation, Entrepreneurship

## POSITIONS OF RESPONSIBILITY

- Vice President Public Relations at Delhi One Toastmasters** (July, 2017 - December, 2017)
  - Coordinated an active **publicity program** in my club. The role consisted of **organizing PR campaigns**, making **newsletters, posters**, engaging with prospective members and **managing** social media accounts of the club.
  - As an EC member, I **facilitated** in the **functioning** of the club and making it a **President's Distinguished Club**.

## PROJECTS

- Mobile App controlled acupressure device(Prof. Tapan Gandhi)** (June, 2017 - July, 2018)
  - Designed and **manufactured** acupressure device, foot-shaped exoskeleton and **low cost** weight Sensor.
- Business model on Graphene filter (P.V.M. Rao)** (Course Project) (Jan, 2018 - April, 2018)
  - Developed a business model to **solve** the water crisis by using research papers and government surveys to **predict customer segment, competitors, intellectual property** and created **Financial Plan** based on **royalties, funding**.
- Hidden Markov model for stock selection (Prof. Nomesh Bolia)** (Course Project) (Oct, 2017 - Nov, 2017)
  - **Researched** papers on using a mathematical model for stock selection based on Hidden Markov Model.
  - **Dynamic Programming algorithms** applied based on Inflation, CPI, Industrial Production and Stock Market Index
- Designing and Manufacturing using Metal foam** (July, 2018 - Present)
  - Utilizing metal foam to design objects with high strength, lightweight, energy absorption and thermal properties.
- Phone Case Analysis using Solidworks and Ansys(Prof. N. Bhatnagar)** (Course Project) (March, 2017 - May, 2017)
  - Analyzed the performance of a phone case while using of - **various** materials considering the cost of the product.
- Image Morphing using method of triangulation(Prof P.R, Panda)** (Course Project) (March, 2016 - April, 2016)
  - Developed an **algorithm** that took feature points as input using OpenCV from user which generated a video morphing the initial image into final image using triangulation on feature points of the two images to generate intermediate images.

## TECHNICAL SKILLS

1. Solidworks
2. Sony Vegas Pro
3. AutoCAD
4. Ansys
5. MS Office
6. Adobe Premiere Pro CC
7. C++
8. MySQL

## EXTRA CURRICULAR ACTIVITIES

### Public Speaking and Leadership Toastmasters International

- President | Executive Committee member club at IITDTM** (January, 2018-Present)
  - Supervised the operation of the club and **directed** the club in meeting the members' educational and leadership needs
  - Represented the club at **District Councils**. Lead and **executed** the club success plan to make the club Distinguished.
- Competent Communicator award(Toastmasters International)**
  - Completed **10 speech** projects, each outlining a speaking skill like **vocal variety, persuasive speaking, inspirational speeches, visual aids, figures of speech, research your topic, body language**.
- Competent Leadership award Toastmasters:**
  - Completed **10 projects** of the **Leadership track** like **Membership Campaign chair**, organized **speech contests, speech evaluations** in clubs across Delhi and **served** as a **mentor** to **guide** new members.
- IITDTM club sponsor:**
  - Set up **demonstration meetings** to show prospective members what a real Toastmasters meeting looks like.
  - Educated people about Toastmasters and **persuaded** 20 people to join. Also got the club **officially chartered**.
- Social Work**
  - Worked with **Samadhan Abhiyan NGO** as a trainer and spread awareness about **prevention of child sexual abuse**.
  - Participated in **Saakshar Bharat Mission 2012**: Worked with **Jamia Millia Islamia** to make 1 person literate.
- Awarded by **President of India Dr. A.P.J. Abdul Kalam** for Junior level badminton **1st Position** at **Rashtrapati Bhawan**
- Tech Content Creator at Youtube:** Employed knowledge of **Search Engine Optimization** and **video editing**.
- Awarded **Best actor** in an Inter School Sanskrit play competition organized by **Sanskrit Academy**
- Acted in a play staged by the **renowned KHILONA GROUP** at Shri Ram Center.



# ANDIBOYINA SAI VAMSI



## ACADEMIC DETAILS

| Year | Degree / Board                                | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech in Production & Industrial Engineering | Indian Institute of Technology, Delhi | 7.009          |
| 2015 | Board of intermediate education A.P           | Sri Chaitanya Junior College          | 95.6%          |
| 2013 | Andhra Pradesh Board of Secondary Education   | Ravindra Bharathi School              | 9.2/10         |

## COURSES DONE

Intro. To Electrical Engg., Calculus, Engineering Mechanics, Product Realization By Manf., Intr.to Material Sc. & Engg., Solid Mechanics, Kinematics & Dy. Of Machines, Thermal Sc. For Manufacturing, Minor Design Project - Vi, Metal Forming And Press Tools, Near Net Shape Manufacturing, Mechanical Engg. Drawing, Introduction To Statistics, Metrology & Quality Assurance, Welding And Allied Processes, Design Of Machines, Intro To Operations Research, Stochastic Modelling & Simula., Numerical Methods& Computation, Material Removal Processes, Control Theory & Applications, Cad & Finite Element Analysis, Micro And Nano Manufacturing, Manufacturing System Design

## QUALIFYING EXAMS

- Joint Entrance Examination (JEE) Advanced Rank: 1179 (OB)
- Joint Entrance Examination (JEE) Mains Rank: 900

## PROJECTS

### • Design and Modelling of delivery drone using composites

**Project Guide:** Prof Naresh Bhatnagar (Jan,2017-May2017)

- Designed a drone using SOLIDWORKS on the purpose of delivering products to door step from one location to other.Various simulations were run in SOLIDWORKS to test the strength, durability and various other factors.
- Composite materials and the respective non conventional manufacturing processes are involved in modelling the drone to achieve high strength to weight ratio.

### • Enhancement of thermal conductivity using nanoparticles

**Project Guide:** Prof P M V Subbarao (May,2017-July,2017)

- Studied physical properties of Nano-fluid and developed a user interface in MATLAB for calculation of its properties

### • Design of grass mower with steering mechanism

**Project Guide:** Prof J P Khatait (Aug,2017-Nov,2017)

- Designed a grass mower with a steering mechanism involving two universal joints which helps in effortless movement of the grass mower through out the field in any direction. High speed cutting action is achieved through installing epicyclic gear train mechanism. Stress analysis of the CAD models were simulated in ANSYS.

### • Cooling of micro-channel heat sink using Nano-fluid

**Project Guide:** Prof P M V Subbarao (May, 2018-July, 2018)

- Studied the application of micro-channel heatsink in high power electronics and cooling enhancement using Nano-fluid
- Developed a user interface in MATLAB to select best combination of Nano-fluids for a given micro-channel heatsink

### • Manufactured a Micro-scale maze on a silicon wafer

**Project Guide:** Prof S Aravindan (Mar,2018-May,2018)

- Patterned a Micro-maze on a silicon wafer using Electron Beam Lithography and deposited silver metal on the same

## IIT DELHI THESIS

**Title:**Surface roughness modelling for ultrasonic assisted grinding

**Supervisor:** Prof S Ghosh (Aug,2018-present)

**Description:**Generating an analytical model to predict the surface roughness in ultrasonic assisted grinding and validation of the model by performing suitable experiments.

## TECHNICAL SKILLS

- Solidworks,Autodesk(inventor,mechanical,fusion360),Creo,ANSYS,Matlab,C,C++,Python,Ms office(complete package)
- Fluidsim,Mastercam,RockwellAutomation,Anylogic

## EXTRA CURRICULAR ACTIVITIES

### • Teaching

- Will help students preparing for various competitive exams like JEE,Mains,BITS,NEET etc by solving questions and clarifying doubts through an online platform called topper

### • Project on space colonization

- During 9th grade in schooling our project named TOCC4124 ranked 3rd in an international competition held by NASA



# ANIMESH JAISWAL



## ACADEMIC DETAILS

| Year | Degree / Board                                | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech in Production & Industrial Engineering | Indian Institute of Technology, Delhi | 8.35           |
| 2015 | CBSE  | Shree Vaishnav Academy, Indore        | 92.2%          |
| 2013 | CBSE  | Shree Vaishnav Academy, Indore        | 10/10          |

## INTERNSHIPS

- **Schaeffler Group, Pune** (May, 2018 - July, 2018) : *Prototype development of electric vehicle*
  - Played an integral role in **conceptualizing, evolving and implementing** the two-speed transmission concept for scooters
  - Performed **statistical analysis** on various test cycle data, analysed the driving patterns and **customer demands** in India
  - Developed a complete **Matlab-Simulink model** for electric vehicles including motor, battery and transmission modules
  - Received **Letter of Appreciation** for outstanding efforts, **analytical skills** and determination towards work
- **Mechartes Researchers Pvt Ltd, Noida** (May, 2017 - July, 2017) : *Product Optimization of Vacudest-500*
  - Formulated a **mathematical model** of the product **Vacudest-500** and analysed the processes operating in the product
  - Simulated and examined the dynamic behaviour of the model under different operating conditions on OpenModelica
  - Refined the working conditions of components to increase overall **efficiency** of the **wastewater treatment product**

## PROJECTS

- **Inventory Management (Prof V Ramamohan)** (February, 2018 - March, 2018) : Modeled a complete production line and inventory on Matlab, simulated it for dynamic lot sizing and parametric production, holding and setup cost
  - Optimised the **lead time** of inventory orders to achieve maximum **service level agreement** (*course project*)
- **Market Data Publisher (Prof S Kaushik)** (March, 2018 - April, 2018) : Created a program that enables high frequency trading by making quick **trading decisions** based on the stock price of companies in **financial market** (*course project*)
  - Employed AVL trees to store the **stock prices** efficiently and facilitate updation, addition, deletion and split functionalities
- **Data Driven Education Decisions (Prof N Bolia)** (July, 2018 - Present) : Developing a machine learning based model to predict the effect of various factors on **school performance** in Delhi and suggest improvements (*BTech Project*)
  - The model uses state **government's database** of schools for **data mining, regression analysis**, training and curve fitting
- **Road Networking (Prof S Kaushik)** (March, 2018 - April, 2018) : Developed a program to return the quickest way between a source and destination in a city having complex road network and traffic light system, used Dijkstra's algorithm
  - Implemented minimum spanning tree logic to plan a **cost and time efficient** road layout in the city (*course project*)
- **Production Line Analysis (Prof N Bolia)** (September, 2017 - October, 2017) : Analyzed and compared two production lines in a workshop, their workstation configuration and outputs, modelled the two on AnyLogic (*course project*)
  - Examined effect of parallel and series configuration of workstations, availability and outages on **throughput** and **cycle time**

## POSITIONS OF RESPONSIBILITY

- **Coordinator | Social Events, Tryst'18 IIT Delhi** (September, 2017 - February, 2018) : Spearheaded a **3-tier team of 25+** activity heads, team heads and volunteers to handle the social events of Tryst, the largest technical festival in North India
  - Started a social campaign '*Sashakt*' in **liaison** with various NGOs all over India, held activities like panel talks, lecture series, awareness sessions, street plays, workshops, flash mobs and rallies to promote women empowerment
  - Organised a conference on Women in Data Science in partnership with **Stanford University, Bayer Analytics** and **SAP**
  - Organised a safety workshop for women in association with **Ministry of Youth Affairs and Sports**, Government of India
- **Representative | Indoor Sports Club, IIT Delhi** (April, 2016- April, 2017) : Unanimously elected by **500+** hostel residents to lead the Indoor Sports Club of Satpura Hostel and promote participation within and outside the hostel
  - Brought the **first ever** pool table in the hostel, **single-handedly** organised various chess, carrom and pool competitions
  - Introduced and implemented the concept of Game Ladder in all the three sports, participation increased by manyfold
- **Mentor | Student Mentorship Programme, IIT Delhi** (April, 2017 - April, 2018) : Mentored 5 freshmen from diverse backgrounds to ensure smooth transition into a new environment, ensuring the comfort of the incoming freshers
  - Selected as 1 of the 130 mentors out of 900 applicants through interview process
  - Coordinated in smooth functioning of exhibits, academic sessions, counselling and mentorship during Orientation 2017

## EXTRA CURRICULAR ACTIVITIES

- **Robotics** : Represented IIT Delhi in Pixelate, **Techfest'15 IIT Bombay** as a team of 4
  - Designed and constructed a robot based on image processing equipped with an ultrasonic sensor and a gripper
- **Dance** : Secured **2nd position** as a team in Group Dance Competition'16 organized by Dance Club IIT Delhi
- **Social Endeavours** : Volunteered for Munirka **Teaching Project** of NSS IIT Delhi and Project Eklavya of Indus Action
  - Taught various slum children for one semester, helped them with their studies(Mathematics, Science and English)
  - Helped spread awareness about RTE, encouraged parents to educate their children and send them to nearby schools



# ANIMESH JAIN



## ACADEMIC DETAILS

| Year | Degree / Board                                | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech in Production & Industrial Engineering | Indian Institute of Technology, Delhi | 6.148          |
| 2014 | CBSE  | Delhi Public School Ghaziabad         | 93.8           |
| 2012 | CBSE  | Delhi Public School Ghaziabad         | 10             |

## SCHOLASTIC ACHIEVEMENTS

- International Publication:** Authored research papers across different disciplines - welding, designing etc.
  - *Wave Soldering*, accepted in International Journal of Innovative Science and Research Technology [2018]
  - *Passive Surveillance Drone*, accepted in International Journal of Innovative Science and Research Technology [2018]
- School Scholar:** Awarded for excellent academic performance for consecutively three years [2010 - 2013]

## INTERNSHIPS

- Honda Cars India Limited, Greater Noida, Uttar Pradesh** (May, 2018 - July, 2018) :
  - Prepared OPS, GPAC-V, and PQCT for yet to release car to ensure safety and quality production from the line workers
  - Prepared Training Plan in order to train new/existing employees according the changes in the new car for quality production.
  - Supervised the New Model Car sample production which was then sent to the head plant in Japan for testing & verification.
- Tata Motors Ltd, Pantnagar, Uttarakhand** (June, 2017 - July, 2017) :
  - Financial and Human Resource Management Optimisation by conducting Time & Activity Analysis for the assembly line workers.
  - Ensured the quality of the products by identifying & minimising the defects in the products assembled in the assembly line
  - Ensured quality production of cars in the assembly line by producing Process Activity Sheet for every operator in the line.

## PROJECTS

- Passive Surveillance Drone Designing (Dr. Jitendra P. Khatait)** (July, 2017 - Dec, 2017) :
  - Designed and realised a model of Passive Surveillance Drone useful for surveillance and security applications ensuring stealth
  - Performed numerous iterations, designed Solidworks Model & performed finite element analysis & stress-strain analysis for it
  - The highlight of the project was its eco-friendly design. It was free of any onboard electric motors or battery pack propellers
- Radiation Queue Modelling (Dr. Nomesh Bolia)** (July, 2017 - Dec, 2017) :
  - Studied Radiotherapy Capacity Allocation with heterogeneous treatment machines, different waiting times & treatment protocols.
  - Implemented Queuing & Patient Pooling approach for optimal utilization of all the servers & lower capacity requirements.
- Archimedes Screw Pump (Dr. D. Ravi Kumar)** (Jan, 2016 - May, 2016) :
  - Manufactured & realised Manual Archimedes Screw Pump. It was capable of increasing the potential energy of a liquid.
  - The screw pump can be for transferring water from a low-lying body of water into irrigation ditches or a water storage.

## EXTRA CURRICULAR ACTIVITIES

- Dance** - Have been a crucial part of Satpura Hostel dance team and the institute dance team - V-Defyn Dance Crew.
  - **Winners**, Group Dance Competition, BFAB; awarded The Most Explosive Team of the Season, among 20+ teams (2017)
  - **Winners**, V Defyn Dance Academy, Western Group Dance Competition at IHE, VMMC, Hindu, KMV, LHMC [2017]
  - **Winners**, among 22 IIT's, of the Overall Championship, Inter - IIT Cultural Meet in our very first participation [2017]
  - **Runners Up** in Western Group Dance Competition amongst 17 other IIT's in Inter IIT Cultural Meet Kanpur [2017]
  - **Runner Up**, V Defyn Dance Academy, Western Group Dance Competition at Sri Venkateshwara, MNC, LIC, MAMC, SC [2017]
  - **Runners Up**, Western Group Dance Competition, Kaleidoscope, Rendezvous, IIT Delhi, amongst 80+ colleges [2017]
  - **Second Runner Up**, Choreographer, Director and Performer, Satpura Hostel, Inter Hostel Group Dance, IIT Delhi [2017]
  - **Runners Up**, Western Group Dance Competition, Kaleidoscope, Rendezvous, IIT Delhi, amongst 80+ colleges [2016]
  - **Runner Up**, Satpura House in Inter-Hostel Group Dance Competition, amongst 13 other hostels, BRCA IIT Delhi [2016]
  - **Best Performer**, Summer Groove 2009, Ankush Kapoor Dance Academy and participated again twice in 2010 and 2015
- Drama Club** - Have been an important part of Satpura Hostel's Drama Club, fulfilling roles like actor, co-director & script writer.
  - **Winners**, Satpura House in Inter-Hostel Stage Play Competition, amongst 13 other hostels, BRCA IIT Delhi [2016]
- Photography and Films Club** - Immensely contributed in all of hostel's PFC culture with the highlight being the following.
  - **Winners**, Satpura Hostel, Inter-Hostel Stop Motion Video Making Competition, amongst 13 hostels BRCA IIT Delhi. [2015]
- Awarded Outstanding contribution to Cultural Activities for leading the institute & house towards a better activity culture [2018]
- Events Activity Head, Rendezvous 2017, BRCA IIT Delhi** (April, 2017 - October, 2017)
  - Organised two Dance Events and EDM night in Rendezvous '17 with EDM night being one of the main highlights of the festival
  - Successfully pitched the sponsor - Dance n Inspire for all the dance events which provided us with the required judging panel.

## TECHNICAL SKILLS

- Well equipped with MS Excel, MS Powerpoint, MS Word, R language, C language, AutoCAD, Solidworks, Ansys and Matlab.



# ANTRIKSH MATHUR



## ACADEMIC DETAILS

| Year | Degree / Board                                | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech in Production & Industrial Engineering | Indian Institute of Technology, Delhi | 8.209          |
| 2015 | CBSE  | Delhi Public School Vasant Kunj       | 95.8           |
| 2013 | CBSE  | Delhi Public School Vasant Kunj       | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- AIR- 44, Haryana Rank - 1 in NSTSE
- Rank - 15, JSTSE

## INTERNSHIPS

- **Wipro Limited : User Access Automation using Neural Networks** (May, 2018 - July, 2018)
  - Implemented **NLP** techniques to extract useful features from the highly unstructured textual data of user requests
  - Trained Neural Networks for client request classification using **CNN** and **RNN**(LSTM, Vanilla and GRU) architectures
  - Developed PowerShell scripts for executing **User Provisioning** in the Active Directory along with Audit and Log files

Received Letter of Recommendation and Pre-Placement Offer for achieving complete UAM automation with accuracy of **99.2%**
- **Groctaurant Foods Pvt. Ltd. : Management and Optimization of Commercial Kitchen** (May, 2017 - July, 2017)
  - Launched a customized **ERP System** for streamlining Inventory Management, Purchasing and Invoicing operations
  - Implemented an **Economic Order Quantity(EOQ)** model for the inventory management of the Delivery Centre's kitchen
  - Designed an embedded system to measure and store weight of ingredients during its processing for R&D of recipes
  - Participated in a week-long **sales spree** to spread awareness about the product at various locations across the city

## PROJECTS

- **Deep Learning for Automated Cervical Cancer Diagnosis | Prof. Kiran Seth** (Jan, 2018 - May, 2018)
 

Developed a neural network architecture for automated detection of malignant cells based on cervical screening test images

  - Implemented attention-based permutation-invariant neural network architecture for **multiple instance learning** problems
  - Formulated a theoretical model based using fundamental theory of **symmetric functions** and validated on benchmark datasets
- **Deep Reinforcement Learning For Team-Based Games, IBM | Prof. Kiran Seth** - Thesis Project (Jun, 2018 - Present)
 

Working on a team-based multi-agent game where agents collaborate and compete to maximize the team reward

  - Developing an **Open-AI Gym** environment of a fruit-gathering game where agents optimize their action using **DRL** techniques
  - Performing extensive analysis of the emerging behaviors of the agents based on different scenarios and environments
- **School Consolidation Model | Prof. Nomesh Bolia** (May, 2017 - July, 2017)
 

Worked on a resource management problem related to Andhra Pradesh Govt. to close down schools with fewer students

  - Implemented the **linear programming** problem to minimize the student transfers under specified logistic constraints
  - Automated the preprocessing step in order to provide an end to end solution enhancing the reusability of the model
- **Bounded Rationality in Service Management | Prof. Kiran Seth** (Sept, 2016 - Jan, 2017)
 

Modelled a multi-class customer, single server pool service system considering customers are boundedly rational

  - Solved the problem to find the optimal number of servers for maximizing the organization's **Net Profit and Social Welfare**
  - Performed **simulations** of the queuing system to extend it to general distributions of inter-arrival times and service times

## TECHNICAL SKILLS

- **Deep Learning Frameworks:** Tensorflow, Keras;
- **Programming Languages:** Python, C++, Java, R;
- **Softwares:** Matlab, KNIME, Anylogic, CPLEX Optimization Studio
- **Mechanical:** Ansys, SolidWorks, Autodesk Inventor, Arduino

## POSITIONS OF RESPONSIBILITY

- **Infrastructure Coordinator, IIT Delhi Open House** (Mar, 2018 - April, 2018):
  - Led 2-tier team of 20 to fulfill infrastructural and logistical requirements for over **750+ projects across 13 departments**
  - Efficiently collaborated with vendors and department coordinators to ensure optimal and timely resource allocations
- **Mechanical Nucleus Coordinator, Training and Placement Cell** (May, 2018 - Present) :
  - Acted as a liaison between **more than 300 department students** and TnP Cell to facilitate training and placement process
  - Leading a team of 4 to pitch various companies for internship and placement of Mechanical and Production Engineering
- **Mentor, Student Mentorship Programme** (April, 2017 - April, 2018) :
  - Counselling freshmen to ensure smooth transition into IIT Delhi such that no student is put through any stressful interaction

## EXTRA CURRICULAR ACTIVITIES

- **Activity Head, Rendezvous 2017** (Sep, 2017 - Oct, 2017) : Coordinated the Infrastructure requirements for Rendezvous 2017
- **Activity Head, Tryst 2017** (Jan, 2017 - Feb, 2017) : Organized 5 Startup events like VC Lounge(Pitching session between Startups and VC's)



# AYUSH KUMAR

## ACADEMIC DETAILS

| Year | Degree / Board                                | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech in Production & Industrial Engineering | Indian Institute of Technology, Delhi | 8.028          |
| 2015 | CBSE  | New Sainik Sr. Sec. Public School     | 91%            |
| 2013 | CBSE  | Ramakrishna Mission Vidyapith         | 10.0           |

## COURSES DONE

Linear Algebra & Diffe. Equa., Microeconomics, Introduction To Statistics, Intro To Operations Research, Stochastic Modelling & Simula., Numerical Methods& Computation, Introduction To Game Theory, Data Structures And Algorithms

## INTERNSHIPS

- **Blueocean Market Intelligence, Bengaluru:** Artificial Intelligence Group (May, 2018 - July, 2018)
  - Creative Testing for video analysis and Optimizer Suite for automated personalized questionnaire*
  - Trained and implemented a logo detection model for branding videos analysis, using **YOLO** and **R-CNN** architectures
  - Developed **Encoder-Decoder** model for sequence labeling of survey document employing attention and beam search
  - **Neural machine translation** model to convert natural language conditional instructions to machine-readable format

## PROJECTS

- **DEIASO: Visual & Haptic Identification of Impulsive Sounds | Prof. P.V.M. Rao** (Oct, 2016 - Dec, 2017)
  - A low-cost band for detection and classification of alarming sounds, providing sensory alerts to hearing impaired users*
  - Conceptualized and fabricated a compact **smart wearable band** having a visual and haptic output interface
  - Implemented an impulsive sound detection model on an Android app using **MFCC features** and neural network
  - Validated the device functionality through extensive **user trials** in a controlled environment with focus user group
- **Deep Reinforcement Learning For Team-Based Games, IBM | Prof. Kiran Seth** - Thesis Project (July, 2018 - Present)
  - Working on a team-based multi-agent game, where agents collaborate and compete to maximize reward of team*
  - Developing a full-blown environment of a fruit-gathering game where agents optimize their action using **DRL** techniques
  - Performing extensive analysis of the emerging behaviors of the agents based on different scenarios and environment
- **Deep Learning for Cervical Cancer Diagnosis | Prof. Kiran Seth** (Jan 2018 - May 2018)
  - A neural network architecture to automate the detection of cancerous cell based on cervical screening test images*
  - Implemented attention-based permutation invariant neural network architecture for **multiple instance learning** problems
  - Validated the model theoretically using fundamental theorem of **symmetric functions** and tested on benchmark datasets
- **School Consolidation Model | Prof. Nomesh Bolia** (May, 2017 - Jun, 2017)
  - Worked on a resource management problem related to Andhra Pradesh Govt. for closing schools with fewer students*
  - Implemented the **linear programming** problem to minimize the number of students transfers under specified logistic constraints
  - Automated the preprocessing step in order to provide an end to end solution enhancing the reusability of the model

## SCHOLASTIC ACHIEVEMENTS

- **Design Innovation Translational Seed Grant:** DIC, MHRD grant for DEIASO
  - Awarded a seed grant of Rs. 1,80,000 for translational research to deliver market-ready product
- **Winner - RESNA 2018:** Student Design Competition, Washington DC
  - Won \$1000 award money along with 1-year membership to RESNA for promoting DEIASO through its network

## TECHNICAL SKILLS

- Deep Learning Frameworks : Tensorflow, Keras
- Computer Languages : Python, C/C++, Java, R
- Softwares : MATLAB, Android Studio, CPLEX Optimization Studio, Octave, Solidworks, Autodesk Inventor

## EXTRA CURRICULAR ACTIVITIES

- **Activity Head, Rendezvous :** Publicity Team (July, 2017 - Aug, 2017)
  - Led a **team of 10** to establish associations with **35+ colleges and schools** and supervised content development
  - Organised Quizzing and Debating Events having a participation of more than 150 students from over 50 schools
  - Achieved an **increment of 80% (YoY)** in online outreach across 5 social media platforms, with a following of 2 Lacs+
- **Mentor :** Board of Student Welfare (July, 2017 - May, 2018)
  - Counselling freshmen to ensure a smooth transition into IIT-D, such that no student is put through stressful interaction
  - Performed activities with mentees along with SMP team to enhance interaction, their self-awareness and experiences



# BHAGYAM CHOUDHARY



## ACADEMIC DETAILS

| Year | Degree / Board                                | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech in Production & Industrial Engineering | Indian Institute of Technology, Delhi | 7.097          |
| 2015 | ISC   | Little wonders convent school         | 90             |
| 2013 | ICSE  | Little wonders convent school         | 89.17          |

## INTERNSHIPS

|   |                                 |
|---|---------------------------------|
| <b>McCain Foods India Pvt Ltd, Mehsana : Engineering Spares Management</b>  | <b>(May, 2018 - July, 2018)</b> |
| - Amended the standard operating procedure for engineering store and workshop after analysing the audit reports.    |                                 |
| - Developed and implemented tracking and record of more than 8000 spares in engineering store and Workshop.         |                                 |
| - Implemented 5S in workshop and developed the scrap disposal process for metallic spares in the plant.             |                                 |
| - Integrated SAP with the CMMS for refurbishment process and found alternatives for the shortcomings in the system. |                                 |

|   |                                 |
|---|---------------------------------|
| <b>Cummins turbo technologies, Dewas : Scrap Management</b>   | <b>(May, 2017 - July, 2017)</b> |
| - Optimised the cycle time for all the scrap movement processes by determining the bottleneck operation.  |                                 |
| - Revamped the scrap removal processes and made it more organised and achieved <b>30% reduction in cycle time</b> .   |                                 |
| - Estimated the investment required to implement the amendments after consulting with various departments and presented it to the business controller of Cummins Turbo Technologies, India. |                                 |

## PROJECTS

|   |                                |
|---|--------------------------------|
| <b>Business model</b>   | <b>(Feb, 2018 - May, 2018)</b> |
| - Designed an extensive business plan of a startup idea which provides apparels to corporate/business employees.              |                                |
| - Performed market research to get data of travellers and to compute price of our services in the competitive market.         |                                |
| - Simulated the <b>cash-flow analysis</b> for 5 years in order to estimate the investment required and the break even points. |                                |

|  |                              |
|--|------------------------------|
| <b>Cost effectiveness of TrueNat TB test</b>   | <b>(Jan, 2018 - present)</b> |
| - Incorporating the new TB diagnostics TrueNat in the dynamic transmission model to estimate its cost-effectiveness. |                              |

|  |                                |
|--|--------------------------------|
| <b>Water Repellent Fabric</b>  | <b>(Feb, 2018 - Apr, 2018)</b> |
| - Fabricated a water repellent fabric by depositing nano-silica particles on polyester fibre with the help of TEOS.  |                                |
| - Observed the distribution of nano particles on fibre surface using Scanning Electron Microscope (SEM) and operated Goniometer to measure the contact angle and verified the (super)hydrophobic effect. |                                |

|  |                                |
|--|--------------------------------|
| <b>Composite Railway Sleeper</b>   | <b>(Feb, 2017 - Apr, 2017)</b> |
| - Determined the composition of materials required to manufacture a fibre reinforced plastic composite railway sleeper by using the mechanics of fibre reinforced lamina.                    |                                |
| - Simulated the design to perform stress-strain analysis and showed how material can be further removed which in turn brings down the cost of sleeper and gives a higher life to cost ratio. |                                |

|  |                                |
|--|--------------------------------|
| <b>Automatic Bottle Filling Machine</b>  | <b>(Aug, 2015 - Nov, 2015)</b> |
| - Fabricated the Geneva and Scotch-Yoke mechanism and used its combination for the purpose of filling bottles. |                                |
| - Built a working prototype of wood, mild steel and acrylic which fills four bottles per cycle.                |                                |

## EXTRA CURRICULAR ACTIVITIES

|   |                    |
|---|--------------------|
| <b>Dance</b>  |                    |
| - Winner, Inter-hostel duo dance competition at IIT Delhi, performed in the lead.                       | <b>(Sep, 2017)</b> |
| - Winner, Inter-hostel group dance competition at IIT Delhi, performed in the lead in a dance group.    | <b>(Jan, 2017)</b> |
| <b>Marketing Activity Head, Rendezvous 17</b>   |                    |
| <b>(August, 2017 - October, 2017)</b>   |                    |
| - Pitched companies from food sector to sponsor for North India's biggest cultural festival Rendezvous. |                    |
| - An integral member for bringing sponsor such as food panda after successful negotiation.              |                    |
| - Sent proposals, signed up MOUs and took continuous followup with the company till the very end.       |                    |

## TECHNICAL SKILLS

Matlab, SolidWorks, Inventor, Ansys, Anylogic, C/C++.

**Courses Done-** Linear Algebra & Diff. Equa., Intro. To Computer Science, Calculus, Introduction To Statistics, Intro To Operations Research, Stochastic Modelling, Numerical Methods, Data Structures And Algorithms, Entrepreneurship.



# HARSHIT HEMANI



## ACADEMIC DETAILS

| Year | Degree / Board                                | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech in Production & Industrial Engineering | Indian Institute of Technology, Delhi | 8.421          |
| 2015 | CBSE  | Indore Public School                  | 92.8           |
| 2013 | CBSE  | Choithram School                      | 9.6            |

## SCHOLASTIC ACHIEVEMENTS

- **National Talent Search Examination (NTSE)**: Awarded merit certificate for qualifying the National Level twice [2011, 2013]
- **International Olympiad of Mathematics**: Secured **State Rank 1 & Olympiad Rank 60** by obtaining 90.7% marks [2011]
- **Publication**: Awarded **Best Paper** for presenting at *Information Technology and Quantitative Management Conference - 'Social media usage vs. stock prices: Analysis of Indian firms'*, Procedia Computer Science, ScienceDirect [2017]
- Secured **Rank 2 & Rank 3** consecutively for State UCMAS Oral & Visual Mental Arithmetic Competition [2009 & 2008]
- **Department Rank 5**: Based on current CGPA, in Production and Industrial Engineering Batch comprised of 61 students

## INTERNSHIPS

- **ADLOID, Gurugram** (May, 2018 - July, 2018) : *Digital Marketing & Retail Analyst, Product Pricing*
  - Developed a standardized model for formulating **Product Price** by estimating revenue increment for vehicle brands
  - Proposed **SEO** techniques: key words research, optimization from site audits & back-links as well as **PPC** Analysis
  - Researched and constructed databases to capture info on Automotive Dealers, **AR/VR** Ventures & Venture Capitalists
  - Learned about AR/VR usage for different sectors and **documented** applications employed by automobile manufacturers
- **Indian Road Safety Campaign** (May, 2017 - June, 2017) : *Crash Data Analysis guided by Prof. Geetam Tiwari, IIT Delhi*
  - Investigated on how leading newspapers in Delhi reported accidents and compared it for hindi and english papers
  - Correlate collected newspaper data with police recorded accidents; Presented and shared the report with **HOD**
  - Received Certificate of Appreciation for hard work, diligence and excellent performance during the internship*

## PROJECTS

- **Social Media Analytics with stock prices** (*Prof. Vigneswara Ilavarasan, DMS IIT Delhi*) [Jan, 2017 - Jun, 2017] :
  - Analyzed social media adoption strategies of the top traded **NIFTY 51** firms in India and researched upon their stock price trends using **Correlation, Regression**, and **ANOVA** on IBM SPSS; Published research work on **ScienceDirect**
- **Valuation of Stock Price using CAPM Model for Facebook Inc.** () [Feb, 2017 - Apr, 2017] :
 
  - Performed **Stock Price Valuation** for a publicly traded firm and prepared a **Stock Pitch Report** on the basis of the valuation
  - Constituted of **Qualitative Study - SWOT & Porter's Five Forces** which gave in-depth knowledge of the firm & sector
  - Completed **Quantitative Ratio Analysis** & finally predicted the future stock price using **CAPM Model** for the year 2020
- **Start-up Idea on Renting Apparels to Corporates** (*Prof. P.V.M Rao, IIT Delhi*) [Feb, 2018 - May, 2018] :
  - Created an extensive **Business Plan**; Performed market research to predict demand & analysed competition for pricing
  - Simulated **Cash Flow Analysis** for 5 years in order to estimate the investment needed, break even points and revenue
- **School Consolidation Model** (*Prof. Nomesh Bolia, IIT Delhi*) [May, 2017 - July, 2017] :
  - Worked on a linear programming problem of **minimizing** the number of student transfers in order to close some schools
  - Worked out a realistic solution for Chittoor district, Andhra Pradesh for their district schools using **Pulp, Python**
- **Pricing of Options & Corporate Liabilities** (*Prof. Nomesh Bolia*) [Sept., 2017 - Oct., 2017] : Learned about options as a financial derivative and studied derivation of pricing an European Option using **Black Scholes** Model for price variation

## EXTRA CURRICULAR ACTIVITIES

- **Cultural Endeavors** : Participated in inter-Hostel Group Dance (2016) and Stage Play Event (2016)
  - **Runners-up**, 3D Modelling Event, Fine Arts Club, IIT Delhi; Sculptured an artwork based on theme *Freedom* [2017]
  - **Runners-up**, Street Play, Dramatics Club, IIT Delhi; Orchestrated and acted in a play on India- Pakistan relation [2015]
  - **Runners-up**, Creative contribution for decorating hostel stall at BHM Night; Actively participated in deco work in **House Days**
- **Decoration Activity Head, Speranza** (April, 2016 - Sept., 2016) : *Managed deco work with a team of 12 Activity Heads*
  - Executed art pieces like origami bird logo, 8ft 3D sculpture & photo collage for Speranza 2016 **within** the span of **15 days**
  - Enhanced the use of junkyard materials, newspaper mash-ups & drapes that **reduced the budget** to **30%** from last year
- **Athletics** : Participated in inter-hostel long distance (800m) race and long jump event held among 11 hostels [2017]

## TECHNICAL SKILLS

- Courses** - Introduction to economics, Microeconomics, Introduction to Statistics, Data Structures & Algorithms, Selected Topics in Finance, Econometrics, Managerial Acc. and Financial Acc., Applied Data Science with Python, Intro. to Finance
- **Software/Tool** : MATLAB, Octave, Anylogic, SPSS, Eagle, Solidworks, Ansys, FluidSIM, Advanced Excel, AutoDesk Inventor
  - **Programming Languages** : Python, C, C++, Cplex



# KARTIK CHOUDHARY



## ACADEMIC DETAILS

| Year | Degree / Board                                | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech in Production & Industrial Engineering | Indian Institute of Technology, Delhi | 7.168          |
| 2014 | AISSCE (CBSE-XII)                             | DAV Public School, Kota               | 92.6           |
| 2012 | AISCE (CBSE-X)                                | LKSEC ,Gota                           | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- **CBSE Merit Certificate** : Conferred for outstanding academic performance, secured **A1** grade in all course subjects [2012]
- **NSTSE**: Presented with certificate of appreciation for performance and **gold medal** for being school-class topper [2012]
- **SBI Scholarship**: Awarded for consistently excellent academic performances by the AGM, State Bank of India Union [2015]

## INTERNSHIPS

- **Revolutionaries, New Delhi**:- Motivational consultancy startup [May-July 2018]
  - Executed **public relations and marketing** strategies, resulted in 7 successful sessions and **10+ upcoming** collaborations
  - Learnings: First-hand insight into PR functions, with focus on establishment and maintenance of **mutually beneficial relationships**
  - Acquainted with basic motivational and psycho-analytical skills, cognitive dissonance, belief system techniques of **Inner counselling**
  - Deliverables: Collated potential clients data and pitched services to **500+ prospects** through calls and 200+ personalised mails
  - Transformed pitch for specific sectors using **Two way symmetrical** model, achieved **70% increment** in conversion rate

Received '**Letter of Recommendation**' from CLO, Revolutionaries, for valuable and constructive contribution
- **SRISTI-UNICEF, Gandhinagar**: Society of sustainable tech-innovators [May-June 2017]
  - Learnings: Understood and applied concepts like **Mindmap, Human-centric design, Patenting norms**, group dynamics
  - Investigated **grass root** problems through field visits, revamped the designs by feedback from **IIM, MIT, Swinburne** mentors
  - Deliverables: Fabricated **solar water desalination** prototypes that are sustainable and affordable targeting the need of **salt farmers**
  - Improved the water distillation rate by balancing factors (**pressure, surface area, temperature**) with respect to cost

Received '**Certificate of Appreciation**' from Anil K Gupta, IIM Ahmedabad, for earnest contribution and solution

## EXTRA CURRICULAR ACTIVITIES

- **Athletics**: Won **10+ medals**, contributed to **5+ team podium finishes**, member of **Inter IIT contingent** for 2 consecutive years  
Honoured with prestigious '**Institute Colours**' for stellar performances at various inter college competitive events
  - Winner, **1 Gold and 2 Bronze medals** (110m hurdles, 400m hurdles & 4x100m) **Inter IIT sports meet**, Madras [2017]
  - Winner, **2 Gold medals** (110m hurdles, 4x100m relay), Sangram, Annual sports fest of IIT Roorkee [2018]
  - Winner, **2 Gold and 2 Silver medals** (4x100m & 4x400m, 110m & 400m hurdles), Sportech, IIT Delhi [2018]
  - Winner, **1 Gold and 1 Silver medals** (110m hurdles, 4x100m relay), Udgash, sports fest of IIT Kanpur [2017]
  - Winner, **1 Bronze medal** 110m hurdles, Sportech 2017, Participant at Inter IIT sports meet, Kanpur [2016]

Awarded '**Outstanding contribution to Sports**' for exemplary contribution to Udaigiri hostel sports [2018]
- **Cultural Endeavors** : Actively participated in inter hostel **Dance, Dramatics and Fine arts** events
  - Runner-up, 3D Modelling Competition; Contributed with creative ideas for decoration in House days and BHM nights [2017]
  - Runner-up, Inter-hostel Street Play competition, Performed in Stage play, PFC music video making competition [2015]
- **Social Welfare initiatives**: Executed art pieces for **Board for Student Welfare** for welcoming freshers at Speranza [2016]
  - Constructed helmet surveys for **Indian Road Safety Campaign** to analyse key design elements and compiled European and BIS norms
- **National Cadet Corps**: Attended a 5 day Winter-Camp and got basic introduction to parade drills, rifle shooting and horse riding

## POSITIONS OF RESPONSIBILITY

- **Institute Vice-Captain, Board for Sports Activities** [April 2018 - Present]
  - Led a team of 20 to win **2 General Championships** at Sportech, IIT Delhi and Sangram, IIT Roorkee, stood **4th at Inter IIT Madras**
  - Monitored conduction of Athletics **Summer sports camp** for scouting of **hidden talent** and enhancing team fitness
  - Introduced incentives for freshers to increase the pool of probables, **evaluation-feedback** to foster competitive temperament
- **Coordinator, Social-campaign, Sportech** [Jan-Feb 2018]
  - Envisaged and executed the theme '**She can be you**' promoting gender equality in sports, covering **30+ colleges** across India
  - Provided exposure to **adventurous sports** like Rugby, Frisbee and mountaineering and united with **Blood connect** for kite-flying
  - Organised mixed Hockey matches with **Junior National women's** team and other intra-institute mixed matches for contingent bonding
- **Executive, Board for Sports Activities** [April 17 - March 18]
  - Responsible for **smooth execution** of BSA Freshers Orientation, Inter-hostel Championship and **other BSA events** throughout the year
  - Pioneered institute's **kabaddi court** and induced authorities for **professional practice sessions** to develop **new sporting culture**
  - Coordinated with **Inter IIT organising team**, captains and coaches to manage registrations, travel, medical kits and equipment

Conferred with '**Significant Contribution to BSA**' award for developing a strong sporting culture at IIT Delhi



# KULKARNI INDRANEEL MUKUND



## ACADEMIC DETAILS

| Year | Degree / Board                                | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech in Production & Industrial Engineering | Indian Institute of Technology, Delhi | 7              |
| 2015 | HSC   | S.B College of Science                | 80.15%         |
| 2013 | ICSE  | Podar International School            | 88.5%          |

## INTERNSHIPS

- **CMORE Automotive GmbH, Böblingen - Germany/Sensor Validation** (May, 2018 - July, 2018): *Virtual Validation*
  - **Objective:** To define a process for selection of virtual validation tool for testing of sensors used in Advance Driver Assistance System
  - **Approach:** Study and analysis of manufacturer's requirements for sensor testing in real and virtual test scenario
  - Define a feature list along with KPIs for comparative study
  - **Output:** - Conducted assessment of VTD and PreScan to understand their features, capabilities and relative advantages
  - Compared the virtual sensor test data with real sensor test data through designed test scenarios in PreScan validation tool
  - Established the extent of virtual validation process as a ***substitute for physical testing*** based on the sensor data comparison
- **Dr. Hedgewar Hospital, Aurangabad/Consulting** (December, 2017): *Time Optimization of invoice processing*
  - **Objective:** To optimize time required to complete invoicing in a pharmacy of a large hospital processing 1500 invoices per day
  - **Approach:** - Study of current invoice process steps, layout, manpower deployment and balancing, shift timings, etc.
  - Time study to know time per step, inefficiencies, through put time, peak load hours and process bottleneck
  - Recommendations for layout of pharmacy, storage of medicine, process flow, manning of stations and shift timings
  - **Output:** ***Reduced*** average invoice processing time by ***34%*** and manpower requirement by ***21%*** to manage same workload

## INDUSTRIAL TRAINING

- **Study of Manufacturing Systems**, Rucha Industries Pvt. Ltd. (May, 2017 - July, 2017)
  - **Objective:** To understand Manufacturing Systems of a mid-size automobile component industry
  - **Approach:** - Study of processes for a product from 'input of raw material to dispatch of finished product'
  - Benchmarking a conventional manufacturing line with modern automated setup of a product to understand relative advantages
  - Study of manufacturing and quality systems like ISO, Lean manufacturing and TPM with their implementation 'to ***improve PQCDSM*** and to reduce identified TPM losses'

## PROJECTS

- **Point and Shoot device to combat cross border terrorism (Prof. S.P. Singh)** (August, 2018 - November, 2018):
  - To develop a device to detect enemy infiltration and enable it to shoot autonomously
- **Image Morphing (Prof. P.R. Panda)** (May, 2015):
  - Developed a program in c++ to output a video of conversion of one image to the other using image triangulation
- **Review on Section 376 amendment (Prof. Arudra Burra)** (May, 2018) : On the values of morality and justice, reviewed the amendment of IPC section 376, which now includes provision of 'Death Penalty' for rape on minors aged below 12
- **Industry 4.0 Business Plan (Prof. P.V.M. Rao)** (April, 2018 - May, 2018):
  - Developed a business plan for a start-up working on ***low cost refurbishment*** of equipment to incorporate Digital Connect

## TECHNICAL SKILLS

- **Design Tools:** Autodesk Inventor, Solidworks, Ansys; **Programming Languages:** C, C++, Java;
- **Other Tools:** MATLAB, Simulink, Advanced Excel, Fluid Sim, VTD, PreScan, Anylogic

## SCHOLASTIC ACHIEVEMENTS

- **NSEA:** Secured position in top 1% of the candidates in Maharashtra for National Standard Examination in Astronomy 2014-15
- **KVPY:** Qualified level 1 aptitude test and selected for the interview round in KVPY 2014

## POSITIONS OF RESPONSIBILITY

- **Sports Secretary Udaigiri Hostel, BSA** (April, 2018 - Present) : Unanimously elected as the Sports Secretary
  - Established a sports committee of captains, vice captain's and senior players for effective co-ordination
  - ***Created a forum*** on the hostel website for sports promotion and to get feedback for improvement
- **Football Captain Udaigiri Hostel, BSA** (April, 2018 - Present) : Ensuring regular practice sessions, focused on improving fitness and basic football skills. Also conducted special drive for ***talent search***

## EXTRA CURRICULAR ACTIVITIES

- **Foreign Language:** Completed Level 1 and 2 of the ***German language*** course offered by Humanities Dept. IIT Delhi
- **Visit to exhibitions:** Visited 'Automotive Testing Expo 2018, Stuttgart, Germany' and 'Auto Expo, Delhi 2017'



# LAKSHAY BAHL



## ACADEMIC DETAILS

| Year | Degree / Board                                | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech in Production & Industrial Engineering | Indian Institute of Technology, Delhi | 8.583          |
| 2015 | AISSCE-CBSE                                   | O.S.D.A.V. Public School Kaithal      | 95.8%          |
| 2013 | AISSE-CBSE                                    | O.S.D.A.V. Public School Kaithal      | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- **Department Rank 4** - Overall position among **Top 4** in the department for past **4 consecutive semesters (2016-18)**
- **IITD Semester Merit Award**- Conferred cash prize for securing rank among top 7% students for 2 semesters (**2016-18**)
- **MHRD Letter of Appreciation**, CBSE Merit Certificate for nationwide distinction in Mathematics(100%)- AISSE (2015)
- **HScTSS Award**, Govt. of Haryana- only candidate from school batch to be awarded for science merit in NTSE (**2012-16**)
- **Amul Vidya Shree**- Conferred with the title by *Gujarat Co-op Milk Marketing Federation* for outstanding academics (**2014**)
- **All India Rank 4** in Bachelor of Management Studies JAT, Faculty of Applied Social Sciences & Humanities, DU (**2015**)

## INTERNSHIPS

- **GSK Consumer Healthcare- Nabha** (May'18 - Jul'18): Engineering Projects- *Capex project execution plan- Design to Delivery*
  - Assessed **180,000 GBP** Opex savings by Time & Motion Study, redeployed manpower dilating **annual savings by 25%**
  - Administered **Design-FMEA** with Production team; suggested concept reforms, ratified delivery **Evaluation Parameters**
  - Captured **OEE losses of 14%**; iterated concept prototypes in *Fusion 360*, drafted installation blueprints in *SketchUp*
  - Enhanced **11% Throughput Cap** by scrutinising feeding simulations; represented GSK at **OEM Design Meetings**

*All propositions accepted, received Letter of Recommendation from RM-Engg Projects, Indian Subcontinent*
- **Siemens Limited- Gurgaon** (May'17- Jul'17): Mobility Division- *Strategic Sourcing for TPE Projects & Global Value Sourcing*
  - Leveraged price margins for a live project by studying trends across suppliers and POs for past Sourcing projects
  - Proposed alternative Sourcing Markets in compliance with Anti-Dumping Laws incorporating **Siemens SCM STAR**
  - Analysed tender documents, annual reports & purchase orders to understand Strategic Sourcing practices in effect

*Received Recommendation from Procurement Manager, Supply Chain Management for valuable contribution*

## EXTRA CURRICULAR ACTIVITIES

- **Corporate Level Strategy Competitions**- *Achievements in Product ideation, Business Plan and Case Challenges*
  - **Formula Student Germany (FSG'16)** - Hockenheimring, Germany - only Indian team in Electric category **(2016)**
    - Spearheaded brainstorming sessions to engineer **2-phase Model** for a Formula Electric Vehicle Startup (AFR)
    - Presented Business Plan at FSG'16 simulating role of an *E-RaceCar Startup CMO* pitching potential Investors
  - **P&G IT Business Challenge- India Winner**- Selected from 2000+ candidates for all-expense paid trip to **Spain** **(2017)**
    - Represented India among 24 delegates, across EMEA, at 5-day Case & Networking event with **P&G Directors**
    - Analysed IT Projects in sub 3-hour timeframe acting as P&G managers to phase out *Global Deployment Plans*
  - **National Winners, Ola Mobility Challenge**, curated Tier-3 Market Entry, awarded by CEO & Founder of Ola **(2018)**
  - **Zonal Finalists (North & East), Samsung E.D.G.E.**, only **UG team** to qualify among B-schools; Campus Winners **(2017)**
  - **Global Q/Fs** (on-going), *ESIC Global Marketing Competition*, winners amongst 5 int'l teams in Round of 16 stage **(2018)**
  - **National Case Round, PepsiCo ChangeTheGame**, qualified based on 90-sec elevator pitch pioneering a Health Drink **(2017)**
- **Aquatics**- Conceived Hostel team from scratch securing maiden points with 5th position in Inter-Hostel GC **(2015)**
  - **Semi-Finalists**, Inter-Hostel WaterPolo- Skipper & *Utility Player*; competed in BGN Delhi State Championship **(2016)**
- **Quizzing** : official representation in multifarious National & State Level invite-based competitions **(2011-13)**
  - **Winners**- CBSE Heritage India- City Chapter(70+ teams), DAV Heritage (Regional), DST Science Quiz (Zonal) **(2012)**

## POSITIONS OF RESPONSIBILITY

- **Coordinator-Guest Lectures, Tryst'18** (Sep'17 - Mar'18)- debuted Demo Projects; **Blockchain Panel** with Partner,PwC
  - Collaborated with **ICME-Stanford** for first ever *Women in Data Science* conference; introduced *Comedy Nights*
  - Developed **Consolidated Proposal System** from scratch to expedite admin clearances & simplify bookkeeping
- **Representative, Student Affairs Council** (Mar'17 - Apr'18)- Co-ordinated with **Deans, Gen.Secys** on SAC initiatives
  - **Bicycle Parking**- Conducted week-long study to propose installation locations & capacity for parking structures
  - **Core Team, Elections**- Ensured smooth conduct of *E-Voting*; scheduled polling orders; regulated voting kiosks
  - Collated Financial Reimbursements procedures; honored with **Significant Contribution Award** by *The Director*
- **Operations Executive, Formula SAE** (Oct'15 - Aug'16)- only freshman from *Operations Division* selected for *FSG'16*
  - Singlehandedly generated **in-kind sponsorship** from *9.9 Media DIGIT*, India's highest readership tech magazine
  - Revised Pitching Strategy; headed corporate meetings; negotiated **deliverable and MoU** with *DIGIT, Uno-Minda*



# MOHIT DALAL



## ACADEMIC DETAILS

| Year | Degree / Board                                | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech in Production & Industrial Engineering | Indian Institute of Technology, Delhi | 7.228          |
| 2014 | CBSE  | GMSS School, Chandigarh               | 89.2 %         |
| 2012 | CBSE  | Manav Mangal, Chandigarh              | 9.8            |

## SCHOLASTIC ACHIEVEMENTS

- **International Publication:** Dalal, Mohit et al., 'OTT Market & Netflix in the Indian Subcontinent', accepted in IJSR (2018)
- **Intl. Publication:** 'Role of Science and Technology in Development of Iran', accepted in IJSR, IF Value=7.296 (2018)
- **KVPY:** Cleared Written round of a two tier process conducted by Dept. of Science and Technology (G.o.I.) (2014)
- **PSA:** Percentile score of **98.27** and **97.30** in Qualitative Reasoning and Quantitative Reasoning respectively. (2013)

## INDUSTRIAL TRAINING

### Endurance Technologies Limited:

(May, 2018 - July, 2018)

- Had exposure of various aspects of **Supply Chain Management** and different sections in the **Purchase Department**
- **Learning:** Profoundly versed in all the factors and profits involved during **Costing** of Machined and Casting parts
- Comprehended SOPs on vendor component development, **Audit process**, non disclosure agreement, **SAP** and QCT
- Got exposure of **Business Intelligence portal** used by company and helped in developing volume discount reports
- **Deliverables:** Formulated a general procedure for choosing the location of Vendor; to **minimise** transportation Cost
- Suggested a new base location for vendor of Seat pipe, which will result in **24.5%** cost reduction in transportation
- Performed **Spend analysis** of BOM proprietary parts worth over **1500 Cr** and incorporated **vendor rating** with it
- Gave conception of **Johari window** in Risk Management and innovative approach for Job rotation

*Received 'Letter of Appreciation' from Vice President, Purchase Department; for pertinent and excellent work.*

## INTERNSHIPS

### UNICEF-SRISTI, Ahmedabad:

(May 2017 - June 2017)

- Experienced a journey of finding a problem, designing & fabricating a solution and presenting it in front of the panel
- **Learning:** Understood concepts like Mind Map, **Human centric product design**, **Patenting norms**, group dynamics
- Investigated grass root cause for water contamination through multiple field visits in the regions of Gujarat
- **Deliverables:** Fabricated sustainable and affordable **prototypes** of solar desalination targeting the need of salt farmers
- Improved water evaporation rate by balancing factors (**pressure, surface area, temperature**) with respect to **Cost**
- Revamped the designs by feedback from IIM, MIT, Swinburne faculties; salt farmers and **field tests** in Kutch

*Received a 'Certificate of Appreciation' from Anil K Gupta, IIM Ahmedabad; for earnest contribution and solution.*

## PROJECTS

- **Cost optimisation in Closed Loop Supply Chain Systems (CLSC)** Dr. Jitendra Madaan, DMS IIT Delhi (2018)  
**Objective:** To minimize the **cost** of manufacturing by proposing scheduling strategy in a product recovery framework  
A novel continuous time based **MILP** formulation have been proposed to enrich product recovery system framework  
Up-to **12.25 %** Cost reduction was observed by varying the production quantity as a fraction of maximum output
- **Valuation of Stock Price using CAPM Model** (Feb, 2017 - Apr, 2017)  
Performed Stock Price Valuation for a publicly traded firm; Constituted a Qualitative study - **SWOT** analysis & Porter's Five Forces, and Quantitative Analysis with firms competitors. Finally evaluated future stock price using **CAPM Model**.
- **Compliant Braking System** (September, 2017): Built a design of **caliper brake** from scratch and tested it for different modes of failures. Successfully came up with a final model after various iterations, with a potential to **productionize**.
- **Point and shoot device for prevention of terrorist infiltration** (Dr S. P. Singh) (*B Tech Project*)  
To come up with a design of an automated device which is capable of diagnosing offensive activity and targeting at it.
- **Radiation Queue** (Dr Nomesh Bolia) (Sept - Oct , 2017) : Studied a **queuing** and patient pooling approach for radiotherapy capacity allocation with heterogeneous treatment machines, different waiting time targets and treatment protocols. It resulted in **optimal utilization** of all the servers, lower capacity requirements and **decreased complexity**.

## TECHNICAL SKILLS

- **Languages:** C , Python
- **Tools:** Tableau, Advanced Excel, Matlab, Octave
- **Softwares:** Solidworks, GAMS, Ansys, Anylogic , FluidSIM
- **Courses:** Microeconomics; Intro to Economics; Introduction to Statistics; Intro to Operations Research; MacroEconomics Stochastic Modeling & Simulation; Operations Management; Organisation and People Management Managerial Acc. & Finance Management; Marketing Management.



# NAMAN GOYAL



## ACADEMIC DETAILS

| Year | Degree / Board                                | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech in Production & Industrial Engineering | Indian Institute of Technology, Delhi | 7.992          |
| 2015 | CBSE  | P.M.S. Public School                  | 95.4%          |
| 2013 | ICSE  | Wilsonia School                       | 94.8%          |

## COURSES DONE

Intro. To Computer Science, Intro. To Electrical Engg., Calculus, Linear Algebra & Diffe. Equa., Introduction To Economics, Introduction To Statistics, Metrology & Quality Assurance, Intro To Operations Research, Stochastic Modelling & Simula., Operations Management, Numerical Methods& Computation, Control Theory & Applications

## SCHOLASTIC ACHIEVEMENTS

- **KVPY Fellowship Award, 2014:** Ranked 964 in KVPY, scholarship program funded by Govt. of India
- **MITACS Globalink Research Award of \$6,000, 2018** for conducting research in Simon Fraser University, Canada
- **Certificate Of Merit** awarded by Homi Bhabha Centre by qualifying for the **Indian National Chemistry Olympiad 2015**
- Awarded Certificate of Excellence for being a delegate at the **Young India Challenge (YIC)** organised by Human Circle
- Awarded Certificate of Participation for attending the **IIT Delhi's Negotiation Table Event** organised by Net Club, IITD
- Secured **All India Rank 1509 (GE)** in the **Joint Entrance Examination (JEE) Advanced, 2015** for admission into IIT's

## INTERNSHIPS

- **Cardiff University, UK (May, 2017- July, 2017)**
  - Formulated a uniquely designed foldable pallet made up of the recycled polymer (Nylon 6,10 and ABS) using **Solid Works**
  - Performed all the **static analysis** on the pallet and verification of the structural performance by the Finite element analysis
  - Delivered excellent strengthening results in the standardised performance tests thus proving the efficacy of the product
  - Received **Letter of Recommendation by Prof. Andrew Hopkins** for the excellent work done during the summer intern
- **Simon Fraser University, Canada (May, 2018- July, 2018)**
  - Among top 10 students selected from all the IIT's for the **SFU-IIT MITACS Summer Programme, Canada.**
  - Worked on **ADAS Toolbox system** in Matlab and studied Autonomous vehicles and advanced driver assistant systems
  - Studied **Lane detection techniques** along with the deep learning methods and its applications in the **Robotic navigations**
  - Used B-Spline method for lane detection and tracking and Passive sensor integration methods in traffic environment

## TECHNICAL SKILLS

- **CAD Softwares:** Autodesk Inventor, SolidWorks, Ansys Workbench, Matlab for Programming
- **C++, Google sketch, Rhinoceros, Unity 3D for Game designing and development, MS Office, Adobe Photoshop, Aftereffects, Final Cut Pro, Games developed through Scratch Software**

## POSITIONS OF RESPONSIBILITY

- **Design And Knowledge Management Coordinator Of Technology and Innovation Club, IIT Delhi** (July, 2017- May,2018):
  - Organised sessions and workshops parallel to the clubs vision like the Tech talk by **IBM India on the topic "A.I. in Healthcare"**
  - Conducted Panel talk discussion on "Social Entrepreneur's Road to Market" and B-plan competition in collaboration with the **Rural Technology Action Group, RuTAG Conference (RTDD-2018)**
  - Directed and guided four executives regarding the designing of the posters and banners for 3 main events during the tenure
- **Publicity Executive Of Economics Club, IIT Delhi** (July, 2016 May, 2017) :
  - Member of the Design And Creative team of the Economics club in the year 2016-2017
  - Part of the organising team of the Youth Parliament event and managed other main events organised throughout the year
- **Public Relations And Publicity Executive Of Technology and Innovation Club, IIT Delhi** (July, 2016 May, 2017)
  - Worked actively in the Designing and Publicity team of the club and have pitched the companies to display their latest tech work in our college and provide opportunities to students during three days **TIC week event**
- **Member of the Mentorship Review Committee** to mentor First Year Students. (July 2017- May, 2018)
  - Guided five first-year students to ensure the smooth transition into college life and comfort of the incoming students
  - The mentors along with SMP coordinators take up the problems of their mentees at appropriate forums
- **Department Convener of P&I Branch, CAIC** in second year (July, 2016 May, 2017)

## EXTRA CURRICULAR ACTIVITIES

- **Volunteer work at International Foundation of Cultural and Social Services NGO, Moradabad:**
  - Conducted interactive sessions on health problems, public awareness on sanitation and hygiene in the rural part of the city
  - Proposed the plan on "**Better Quality Education**" for the village children to the government authorities



# PIYUSH KUMAR



## ACADEMIC DETAILS

| Year | Degree / Board                                | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech in Production & Industrial Engineering | Indian Institute of Technology, Delhi | 7.695          |
| 2014 | CBSE  | The Air Force School                  | 94.4           |
| 2012 | CBSE  | The Air Force School                  | 9.4/10         |

## COURSES DONE

Introduction To Economics, Data Structures And Algorithms, Microeconomics, Introduction To Statistics, Intro To Operations Research, Stochastic Modelling & Simula., Numerical Methods& Computation

## SCHOLASTIC ACHIEVEMENTS

- **IBM**
  - Awarded certificate of accomplishment for clearing the e-course **Data Analysis with Python** offered on Coursera
- **Stanford University**
  - Awarded certificate of accomplishment for successfully completing the e-course **Machine Learning** offered on Coursera
- **deeplearning.ai**
  - Awarded certificate of accomplishment for completing the e-courses **Neural Networks and Deep learning** and **Hyperparameter tuning, Regularization and Optimization** offered on Coursera
- **Duke University**
  - Awarded certificate for clearing the e-course **Data Visualization and Communication with Tableau** offered on Coursera
- **Indian School of Business**
  - Completed e-courses **Introduction to Financial Markets** and **Portfolio and Risk Management** offered on Coursera

## IIT DELHI THESIS

**Title:** Identifying and analysing performance metrics of e-administration at IIT Delhi

**Supervisors:** Dr A.D. Gupta and Dr Ram Lal

(Aug, 2018 - Present)

- Doing literature review of statistical models and e-administration for **identification** of factors for service quality evaluation
- Developing a quality assurance model based on exploratory, discriminatory analysis and stability tests for performance evaluation

## PROJECTS

- **Artificial Neural Networks (Prof. P.M.V Subbarao)** (Aug, 2018 - Present)
  - Through **hyperparameter optimization** finding out the best fit ANN model for the given experimental data
  - Obtained ANN model will be used to generate large artificial data through which a local optimum will be realised
- **Stock selection using Hidden Markov Model (Prof. Nomesh Bolia) - (Course Project)** (Aug, 2017 - Nov, 2017)
  - **Researched** articles and papers on using a mathematical model for stock selection based on **Hidden Markov Model**
  - Used **Dynamic Programming algorithms** to apply the model mainly on 4 parameters, Inflation, Consumer Price Index, Industrial Production Index and Stock Market Index
- **Silver Nano labyrinth (Prof. S. Aravindan) - (Course Project)** (Jan, 2018 - April, 2018)
  - Designed the maze model in **Autodesk Inventor**.
  - Using the model manufactured a nano labyrinth through **Spin coating** and **Electron Beam Lithography** on a silicon wafer
- **Fest management system (Prof. Ragesh Jaiswal) - (Course Project)** (Mar, 2017 - April, 2017)
  - Implemented **Heap of Heaps** in Java. This implementation performed insert and remove (top scorer) in  $O(\log n)$  complexity

## TECHNICAL SKILLS

- **Computer Languages:** Python, C/C++, Java
- **Software and Tools:** Matlab, Tableau, Anaconda, Jupyter Notebook, Numpy, Pandas, Scikit learn, Octave, Excel, AutoDesks, SolidWorks, Android Studio

## EXTRA CURRICULAR ACTIVITIES

- **Hostel Football Captain**
  - Planned regular practice sessions and led the team throughout the matches which led to significantly better performance
  - Proposed and got approved all the necessary Football gears
- **Toastmasters International**
  - Core Committee member at IIT Delhi Toastmasters
  - An active participant in various speech contests and public speaking seminars



# PREETAM SURESH RATHOD



## ACADEMIC DETAILS

| Year | Degree / Board                                | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech in Production & Industrial Engineering | Indian Institute of Technology, Delhi | 6.818          |
| 2014 | Board for Intermediate Education, A.P         | Sri Chaitanya Junior college          | 92.2%          |
| 2012 | Indian Certificate Of Secondary Education     | Abhyasa Residential Public School     | 80.67%         |

## COURSES DONE

Linear Algebra & Diffe. Equa., Macro Economics, Thermal Sc. For Manufacturing, Intro. To Computer Science, Near Net Shape Manufacturing, Introduction To Statistics, Metrology & Quality Assurance, Design Of Machines, Intro To Operations Research, Stochastic Modelling & Simula., Numerical Methods& Computation, Control Theory & Applications, Cad & Finite Element Analysis, Automotive Systems, Micro And Nano Manufacturing, Manufacturing System Design

## PROJECTS

### • Cooling of Micro-channel heat sink using Nano-fluid

Project Guide : Prof. P M V Subbarao (May, 2018 – July, 2018)

-Studied the application of Micro-channel heatsink in **High Power Electronics** and cooling enhancement using Nano-fluid

-Developed a user interface in MATLAB to select the best combination of Nano-fluids for a given micro-channel heatsink

### • Thermal conductivity enhancement using Nano-fluid

Project Guide : Prof. P M V Subbarao (May, 2017 - July, 2017)

-Investigated physical properties of Nano-fluid and developed user interface in MATLAB for calculation of its properties

### • Design and Analysis of Delivery Drone -(Course Project)

Project Guide: Prof. Naresh Bhatnagar (Jan, 2017 - May, 2017)

-Designed a drone using **SolidWorks** software for delivering products at doorstep & used composites while modelling to achieve High Strength to Weight ratio and made it lighter compared to that of Amazon Prime Air

-Specially designed the rotor blades and body to achieve max lift and min drag for easy carrying of payloads

-Run simulation tests to check for its Strength,Modulus and various physical factors which could lead to catastrophic failure

### • Design of Grass Mower with Steering Mechanism -(Course Project)

Project Guide : Prof. Jitendra Prasad Khatait (Aug, 2017 - Nov, 2017)

-Designed a high speed cutting Grass Mower along with Steering Mechanism which helps in effortless movement in any direction

-Run simulation tests in **ANSYS** Software and made modifications to the model to check for its strength,toughness and impact loading such that it can withstand very harsh conditions

### • Patterned a Micro-scale maze on a Silicon wafer -(Course Project)

Project Guide : Prof. S Aravindan (Mar, 2018 - May, 2018)

-Patterned a Micro-maze on a Silicon wafer using **Electron Beam Lithography** and deposited silver metal on the same

-Gained knowledge on manufacturing a Transparent Flexible Electrode

### • Study and Application of Underwater Welding -(Course Project)

Project Guide : Prof. S Aravindan (Sept, 2017 - Nov, 2017)

-Written a term paper on Underwater Welding process, explaining its important characteristics and Spatter analysis

-Observed and studied the dynamic behaviour of bubble evolution by performing the experiment

## IIT DELHI THESIS

### Title:Surface roughness modelling in Ultrasonic assisted Grinding process

Supervisor: Prof. S Ghosh (Aug, 2018 -Present)

#### Description:

- Generating an analytical model to predict the surface roughness in Ultrasonic assisted Grinding process
- Validation of the the model by performing suitable experiments

## TECHNICAL SKILLS

- SOLIDWORKS, ANSYS, AUTODESK, FluidSIM
- MATLAB, C, Python, MS Office

## EXTRA CURRICULAR ACTIVITIES

#### • Athletics:

- Secured Silver medal in in 5 K race walk (District level)
- Secured gold in 4x100 meters relay(School level)
- Member of National Sports Organisation



# RISHABH MOHAN SHARMA



## ACADEMIC DETAILS

| Year | Degree / Board                                | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech in Production & Industrial Engineering | Indian Institute of Technology, Delhi | 7.645          |
| 2014 | CBSE  | Delhi Public School Ghaziabad         | 98.2%          |
| 2012 | CBSE  | Delhi Public School Ghaziabad         | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- **Erasmus+ exchange student at Denmark Technical University (DTU) QS-53-** *1 of 2 students out of 850 applicants*
  - Awarded Erasmus scholarship of EUR 5070 (4 Lacs INR) offered to **only 8 Indian students**
- **World Business Dialogue 2019:** One of 300 **international delegates** invited to the annual conference in **Cologne, Germany**
- **Samsung E.D.G.E 2017:** Ideated 2 products; represented **IITD** at Zonal round competing with **business schools** including IIMs
- **CBSE secondary board exams 2014:** **All India Rank 31** with 98.2%. Awarded top 0.1 percentile **certificate by HRD ministry**
- **Kishore Vaigyanik Protsahan Yojna (KVPY) 2013:** **All India Rank 233**; Awarded scholarship and fellowship by DST India

## INTERNSHIPS

- **REMORA Laboratory, Denmark Technical University:** *Automatic motion control of underwater robots* (May, 2018 - July, 2018)
  - Improved settling time to 1.5 secs leading to **accurate docking** and **low maintenance cost** when in **physical environments**
  - Prevented **catastrophic failure** of speed actuators by controller **tuning** for time domain specifications (**5% overshoot**)
  - Designed a controller based on the *linearized model* of *robot plant transfer function* using **MATLAB and Simulink**
  - Implemented **SISO control** on embedded hardware via **C++ & ROS**; Test results -**no wall collision** and **controlled turning rate**
- **Indian Road Safety Campaign** ( May, 2016- July,2016)
  - Conducted **traffic patterns** study to analyse a design fault in a road intersection leading to **5+ causalities daily**

## PROJECTS

- **HardTech Entrepreneurship (Prof. Thomas J Howard, DTU)** (Feb'18- May'18)
 

*Commercialization and value creation out of a proprietary technology* provided by **Mash Biotech Pvt. Ltd.**

  - Led **quality surveys** and sample collection on two chicken farm and hatchery situated in **Aalborg & Sønderborg, Denmark**
  - Achieved **95% purity** in lab scale production of bio-diesel via transesterification using **CaO catalyst** derived from egg shells
  - Developed a **business model** and **go-to market strategy**; Received **2 LOIs** from **Dan Hatch, Denmark and KSRTC, India**

## POSITIONS OF RESPONSIBILITY

- **Overall Coordinator AAIP (Alumni Affairs and International Programmes)** (April, 2018 - March, 2019) :
 

*Spearheading a 40+ membered three tiered team for alumni involvement and international outreach efforts of IIT Delhi*

  - Leading the initiative to raise **IIT Delhi's global university ranking** via a **5% increase** in the international students enrolled
  - Establishing an **alumnus funded scholarship** with targeted mentorship for **10+ underprivileged students** at IIT Delhi
  - Minting **10+ collaborations** with foreign universities thus **doubling** the exchange opportunities for **50+ UG & PG students**
  - Organizing **first TEDx: Alumni** chapter in collaboration with Tryst'19, inviting **5+ pioneers** from sectors like *tech, finance etc*
- **International Coordinator AAIP** (April, 2017 - March, 2018) :
  - Led to *fruition* of **8 inactive international academic partnership MoUs** by liaising with multiple IITD administrative divisions
  - Initiated exchange with **6 new universities** in **3 continents**; **Revamped** the international student exchange over 5 months
  - Coordinated IITD Convocation 2017, in presence of the **Hon. President of India** and distinguished alumnus **Dr. Kiran Bedi**
- **SAC Senate member** (April, 2017 - April, 2018): *Highest decision making body in IIT Delhi*
  - Represented pressing issues of more than **8000 students** to an administrative council headed by **Director of IIT Delhi**
  - Accelerated and supervised the pending proposal of installation of **Wi-Fi-facility** in 4+ student hostels across the institute
- **PFC representative** (April, 2016 - March, 2017) : *Promoted filming culture across the institute*
  - Rendezvous 2016- Organized **7+ filming and photography workshops** in the annual cultural extravaganza

## EXTRA CURRICULAR ACTIVITIES

- **Cinematography:** *Directed and edited 10+ videos* for multiple boards at IIT Delhi
  - Founded **White Ravens**, a **production crew** with 10+ enthusiasts producing creative content; content reach of 2000+ viewers
  - Winner of *Music Video competition*: Directed, scripted, designed sets & edited the film made on a mental health issue (2016)
- **Winner of Award:** **Significant contribution to cultural activities**, awarded by warden amongst 400+ hostel residents (2017)
- **Winner** of the title: **Best Interjector** in the inter house debate held during the 'Abhivyakti week' at DPS Ghaziabad (2012)
- **Winner** of the district level *Science Exhibition* for prototype demonstration of the **space rocket stages** in ISRO (2007)
- **Social Endeavours:** - **Enactus IIT Delhi**: Succeeded in small scale production of organic biscuits to improve **farmer's earnings**
  - **National Association for Blind**: Multiple weekly visits to mentor **30+ visually challenged kids** during their school hours
  - **RTE Indus Action**: Conducted a detailed phonic survey by calling **100+ parents** for the education of their children



# SANKALP KATIYAR



## ACADEMIC DETAILS

| Year | Degree / Board                                   | Institute                             | GPA / Marks(%) |
|------|--|---------------------------------------|----------------|
| ---  | B.Tech in Production & Industrial Engineering    | Indian Institute of Technology, Delhi | 6.984          |
| 2015 | XII, Central Board of Secondary Education (CBSE) | Rukmini Devi Public School, Delhi     | 94.2%          |
| 2013 | X, Central Board of Secondary Education (CBSE)   | Rukmini Devi Public School, Delhi     | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- Pearl Award:** Nominated by Alumni Affairs among **1600+** students for representing IIT Delhi at an **international conclave** (2018)
- SOMT Scholar:** **State Rank 3** in Science Open Merit Test; received a **certificate of merit** in the exam organized by DSSTF (2013)
- JSTSE Scholar:** **State Rank 19** in Junior Science Talent Search Examination organised by Directorate of Education (2012)
- Benchmark Test:** Scored **88.3 international percentile**; organised by Australian Council of Educational Research (2011)

## INTERNSHIPS

- McCain Foods India Pvt. Ltd, Mehsana** (May'18 - Aug'18) : Worked as a consultant to propose a plan for bio-digester & WWTP
  - Scrutinized the waste demographics of the only plant in India; Comparatively **analysed** the proposals from 5 consulting firms
  - Designed a novel, optimized & integrated plan for **bio-gas production**, purification & waste-water treatment system
  - **Pioneering technology** used led to **100% utilization** of 1500 cu.m waste-water and **50 MT** potato waste produced daily
  - Calculated the **revenue generation** to be **INR 8.4 Cr p.a.** by bio-gas & compost production and reduced land use by **40%***Received a Letter of Recommendation from Sr. Manager, Operations & Maintenance, for contribution to the company*
- Jay Bharat Maruti, Gurgaon** (May'17 - July'17) : Worked as a technical intern to analyse the welding & allied processes
  - Assessed the process flow of the Exhaust Systems and Muffler welding & production line of **YE-3 Pipe of ALTO800**
  - Experienced the working and processes at a sheet metal manf. & welding plant producing for **Maruti Suzuki India Limited**
  - **Analysed & examined** the various departments in the plant like **Production, Maintenance, Engineering, Quality Assurance**

## POSITIONS OF RESPONSIBILITY

- President, Enactus IIT Delhi** (Apr'18 - Present): Leading a **3-tier team of 46 members** working in **4 entrepreneurial ventures**
  - Generated over **7.3 lacs** of revenue, impacted over **10k** lives by supervising on-ground implementation of **4 businesses**
  - Strategized & developed the **business & financial models** for ventures in education, energy, healthcare & environment sectors
  - Successfully marketed the organization leading to media footprint of **20+ lakh** from The Times of India, Doodrdarshan etc.
  - Project Leader, Nirmalya: *Entrepreneurial Venture aimed at providing waste management solutions by creating zero-waste model*
  - **Pioneered** a new division of community composting in the project by conceptualizing the **business & financial models**
  - **Collaborated** & negotiated with **MCD & RWAs**; generated **revenue over 1.2 Lacs**, reduced carbon footprints by **155 tonnes**
  - Core Team Member: Co-administered the **finances** of the registered trust and **allocated funds** worth more than **4 Lacs**
- Cultural Secretary, Zanskar House** (Apr'17 - Apr'18): Led a team of **10**; organized **20+ hostel and institute level events**
  - Uplifted the hostel culture leading to multiple **podium finishes** including **first position** in 3 major institute level events
  - Spearheaded Zenith, a 3-day annual hostel fest; strategized crowd focused **15+ events** in performing arts, gaming & sports
  - 2nd Best Cultural Secretary Award** by Prof. Jyoti Kumar, President, BRCA, for exceptional commitment towards the duty (2018)
- Music Secretary, Rendezvous'17** (May'17 - Oct'17): Co-led a team of **13 representatives** to manage events & marketing
  - Conducted **10+** nationwide competitions with extensive publicity during Rendezvous'17; 2000+ students participated
  - Devised a team structure to efficiently & effectively manage the logistics, infrastructure, hospitality of the events in the fest

## EXTRA CURRICULAR ACTIVITIES

- Business Case & Innovation Challenges** : Strategized & developed the business & financial models of **4+** ventures
  - Global Level - **Top 12 Finalist**, **1 Race 2 End Waste**; the only team to participate from India in World Cup, London (2017)
  - **Finalist**, Eureka, Asia's biggest B-Plan Competition, selected among the **top 5 out of 10k teams** for the pitch deck (2018)
  - National Level - **Runner-Up**, **Enactus Nationals Competition**, among **60+** colleges, judged by CEOs of KPMG, Unilever (2016)
  - **Winner**, **Mahindra Grant (INR 50k)** & **Blue Dart Grant (INR 40k)** for creating social impact by entrepreneurial action (2017)
  - **Winner**, **Stratezenith**, by Indian Game Theory Society, involved problems of econometric methods & financial theory (2018)
  - **Winner**, **Troll Physics**, national level comic-strip cum meme-making competition defying the basic laws of physics (2017)
- Cultural Endeavors** : Managed and participated in **30+** cultural events at intra/inter-hostel and institute level during 3 years
  - Music : Vocalist at **Mridang**, Music Society of IIT Delhi, performed across several genres in myriad of **institute level** events
  - **Winner & Runner-up**, Mehfil, traditional Indian Music Competition spanning across folk & qawwali genres (2017,2016)
  - **Vocalist**, Rendezvous'16, performed in inaugural ceremony of the fest in OAT having a footfall of **6000+** people (2016)
  - Fine Arts & Crafts : Actively led the creative & decoration team in House Days & BHM Nights for 3 consecutive years
  - **Second Runner-up**, Inter-Hostel Wall Painting Competition; **lead artist & designer** of the artwork in the team of 3 (2018)
  - Awarded '**Outstanding Contribution in Fine Arts & Crafts**', Zanskar, for significant participation in BRCA Events (2017)
  - Honored with 'Outstanding Contribution to Cultural Activities' Award by Warden, for fostering the culture of the hostel (2018)



# SHOBHIT MITTAL



## ACADEMIC DETAILS

| Year | Degree / Board                                | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech in Production & Industrial Engineering | Indian Institute of Technology, Delhi | 7.316          |
| 2014 | CBSE  | PMS Public School                     | 90.6%          |
| 2012 | CBSE  | KCM School                            | 9.8/10         |

## SCHOLASTIC ACHIEVEMENTS

- **Formula Student Germany:** Participated in international design competition FSG17 Electric Vehicle; *Axlr8r club* (2017)
- **All India Talent Search Examination:** Recipient of national scholarship from *International Children Equity Fund* (2010)
- **Olympiad:** Secured AIR 28 in National Cyber Olympiad & International rank 55 in International Mathematics Olympiad (2011)
- **National Level Science Talent Search Examination:** Secured national rank 53 in NSTSE by Unified Council (2010)

## INTERNSHIPS

- **National Bearings Company: CK Birla Group:** Advanced Product Technology, R&D Dept. (May, 2018- July, 2018)
    - Designed **Noise, Vibration & Harshness** module and recommended Advance techniques of NVH measurements
    - Performed **Order Analysis** for Defect Frequency; handled real life problem statements from **BMW, Daimler and Magna**
    - Engineered new product **Smart Sensor Bearing** with real time data adaptability; concept design & proto sample development
    - Introduced special material code with **.NC suffix** in **SAP** to handle Critical & Non Critical material in Shop-Floor System
- Received Letter of Recommendation from Senior Manager R&D Department for exceptional work contribution*

## PROJECTS

- **Discrete-event simulation model of kidney transplantation in India (Prof. V. Ramamohan)** (May, 2018 - Present)
  - Simulated kidney procurement model to waitlisted patients using OOP and DTMC in **Python** by employing KAP score
  - Developed **kidney allocation algorithm**; forecasted probability of organ transplant, avg deaths/year & transplants/year
  - Created Synthetic waitlist for states that do not have publicly available waitlist data using **regression** and **inference**
- **Stochastic Modelling and Simulation (Prof. Nomesh Bolia)** (Aug, 2017 - Nov, 2017)
  - Controlled flow of flyers traffic at airport check-in counters by use of Markov Chain analysis with varying sojourn time
  - Reduced time between gate to gate travel using Erlang-c model in Anylogic Software by applying Queueing theory concept
- **Applications of CFD in Formula Student & Formula SAE:** Certification from Simscale platform (Sep,2017 - Nov,2017)
  - Investigated behaviour of drag and lift; determined stall zone around Formula SAE car using *rotating wheel condition*
  - CFD analysis comparing aerodynamic flow around different wings with varying flap angles using *Multi Reference Frame*

## EXTRA CURRICULAR ACTIVITIES

- **Space Survey Activity (Prof. A.K Gosain): Appointed as Project Coordinator** (Jan, 2017 - April, 2017)
  - Led a team to structure complete database on arc GIS system of full academic area through campus wide survey
  - Executed data submission of 13 hostels & academic buildings using Google Street View & planned out verification process
  - Analyzed the data to provide solutions to DDSP and DDO, IITD to optimize maintenance budget and allocation issues
- **Indian Road Safety Campaign:** (2016)
  - Planned and developed solutions to major traffic problems at a roundabout on NH9 under Indian Road Safety Campaign
  - Got featured in *Times Now* coverage; submitted 4-phase implementation proposal targeting reduction in road fatalities
- **National Finalist; In Case You Can:** Case Study Competition of annual Debating & Literary Festival, NSIT Delhi (2018)
- **Institute Dance Production:** Performed in Institute level dance show by executing four routines in IDP (2016)
- **Inter Hostel BRCA Competition:** Participated in Inter Hostel Street Play (2015) & Inter Hostel Dance Competition (2016)
- **Mentor, UDAAN:** Selected from 70 applicants; *MHRD* project to encourage enrollment of girls in premier engineering colleges
  - One among 11 mentors; conducted topic wise sessions and question wise discussions for 60 mentees aiming for JEE
  - Assessed the topic wise strengths and weaknesses of all the assigned mentees and guided them accordingly
- **Publicity Executive, Tryst 2017: North India largest technical fest** (Oct, 2016 - Feb, 2017)
  - Handled and managed 50 campus ambassador single handedly across the country to increase participation in Tryst
  - Designed and conceptualized the video series titled *Techseries* in order to bring out the technical accomplishments in IIT

## POSITIONS OF RESPONSIBILITY

- **Class Committee Coordinator from Department** (Apr, 2018 - Present) : Elected by 60+ students of the department
  - Coordinated with professors to plan course schedule and guided students facing difficulty with current curriculum
  - Facilitated floating of departmental elective courses and change in course slots based on request of the students
- **Mentor, Student Mentorship Program:** (July,2017 - May,2018)
  - Guided five first year students to ensure smooth transition into IIT Delhi, ensuring the comfort of the incoming students
  - Assisted in smooth functioning of exhibits, activities and sessions related to academics & counselling during orientation



# SHUBHAM VERMA



## ACADEMIC DETAILS

| Year | Degree / Board                                | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech in Production & Industrial Engineering | Indian Institute of Technology, Delhi | 7.725          |
| 2015 | CBSE  | St. Vivekanand Sr. Sec. School        | 94             |
| 2013 | CBSE  | Bikaner Boys School                   | 10             |

## SCHOLASTIC ACHIEVEMENTS

- **Design and Innovation Summer Award** : 1 of 20 projects conferred by MHRD & DIC, IIT for innovation & product design(2017)
- **Biotech Ignition Grant** : Conferred by prestigious Biotechnology Industry Research Assistance Council, INR 48 lacs(2017)
- **Patent-Pending** : Awarded "Certificate of Appreciation" by Neurology Department, AIIMS for exceptional innovation(2017)
- **Publication** : Verma S. et al, "Financial Inclusion Index Approach Unifying E-Wallets"; IJSR; Accepted at ICSTSS(2018)
- **KVPY Fellowship Award** : Amongst the top 1% students selected through a rigorous 2 tier process by DST, Govt. of India (2014)
- **4th International Science Talent Search Examination, Taramandala** : Secured Rank 6 at the National Level (2009)
- **Certifications** : Marketing Analytics; Behavioral Economics; Financial Policies for Project Evaluation; AP Macroeconomics

## INTERNSHIPS

- **Viacom18 Media Pvt. Ltd** : Advanced Innovation and Technology Growth (May, 2018-July, 2018)
  - Pioneered Augmented Reality based business cards & 'website on paper' for Nickelodeon using Aurasma for marketing
  - Optimized cost by cutting 44% Opex and 36% Capex in web consolidation, with direct tie-ups with Microsoft, AWS
  - Worked with YLDP team on 'Advanced Tech in marketing' engulfing Mixed Reality(AR+VR), Holographic, Virtual chatbots
  - Formalized proposal for royalty payments and Digital Rights Management through Blockchain in entertainment sector

Awarded Letter of Recommendation from Sr. Director for portraying self-starter and passionate attitude during the tenure
- **Nanoclean Global Pvt. Ltd** : Finance and Marketing (Nov, 2017- Dec, 2017)
  - Strategised formal collaboration with GSK Healthcare for B2C marketing and distribution rights of Nasofilters nationwide
  - Engaged with 20+ potential collaborator companies to explain product functioning, design leading to 150% increased sales
  - Outsourced production & processing of raw materials to ATIRA, discerned potential savings of INR 60 lacs optimizing cashflows

Received Letter of Recommendation from Director for displaying cooperative, proactive skills and exceptional efforts

## POSITIONS OF RESPONSIBILITY

- **House Secretary, Zanskar House** : Elected by 450+ residents for spearheading year long initiatives(April, 2018 - Present)
  - Leading team of 50+ secretaries, representatives, captains and vice captains to manage all hostel affairs & maintenance
  - Introduced first ever Zanskar Chatbot to acquaint hostel rules & glory; initiated informative & recreational sessions for workers
  - Appointed the Zanskar Alumni Committee; Spearheaded House day; Led the COPMIN(hostel level anti-ragging committee)
  - Co-founded "Zquence", Dance society; Pioneered Zanskar Meets to showcase hostel achievements & rekindle hostel spirit
- **Events Coordinator, Rendezvous** : Selected through rigorous 2 stage process to lead a team of 50+(Nov, 2017 - April, 2018)
  - Finalized & executed MoUs with event sponsors and academies to provide judges, professional artists, scholarships & prizes
  - Formulated ideas for RDV 2018 theme(A Symphony of Nostalgia), various competitive, pre fest & informal events
- **Representative, Student Affairs Council** : Elected by 450+ residents to highest student policy making body(April, 2017-April, 2018)
  - Worked in liaison with administration implementing key initiatives; raised hospital issues & publicized medical insurance with HAC
  - Formalized report over the reduction of credits bridging the gap between the students and the Dean of curriculum
- **Events Coordinator, Alumni Affairs & International Program** : Administered a team of 10+ executives(April, 2017-April, 2018)
  - Coordinated the informative sessions for students; organized lectures by distinguished alumni, multiple national embassies
  - Spearheaded 10+ events managing alumni interaction and international outreach, multilayered Rendezvous with Alumni

## EXTRA CURRICULAR ACTIVITIES

- **Case Studies & Strategy Based Competitions** :
  - Winner, 'Stratazenith' : Indian Game Theory Society(2018); Runner up, Forensics Case Study, 'Murder Mystery' : Tryst(2018)
  - Winner, 'Case Odyssey' : National Case Study Competition(2018); 2nd Runners-up, Bidding Wars- 'IPL Auction' : Tryst(2018)
  - Winner, Conspiracy based 'The Conspirators' : Tryst(2018) ; National Finalist : 'Mind's eye Quiz' : MDI Murshidabad(2018)
  - Runners-up, Business Case Study Challenge 'In Case You Can' : Colloquim, Debating Society Festival, NSIT Delhi(2018)
  - National Finalist, 'The Indian Case Challenge' : Kshitij, Asia's largest Techno-Management fest, IIT Kharagpur(2017)
- **Awards and International Recognition** :
  - Significant Contribution to Speranza : Awarded among a team of 70+ students for conducting myriad of quality events(2016)
  - Best Manager : Awarded by Economics Department, JDML for excellent managerial skills in The Showdown (2017)
  - Times Group Appreciation Certificate : Acclaimed amongst Best Managers for IITD chapter of Campus Princess(2017)
  - Team Leader, Indian Students Delegation : Selected for visit of Abdullah II, King of Jordan addressing entrepreneurial ventures
  - Representative, The Indian Youth Delegation : Selected by French Embassy for meeting Macron Emmanuel, French President



# SHUBHAM KUMAR



## ACADEMIC DETAILS

| Year | Degree / Board                                | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech in Production & Industrial Engineering | Indian Institute of Technology, Delhi | 7.273          |
| 2015 | CBSE  | VBCV, Jamshedpur                      | 87.4           |
| 2013 | ICSE  | RVS Academy, Jamshedpur               | 94.2           |

## SCHOLASTIC ACHIEVEMENTS

- CGI U- **University of Chicago**: 1 of 1400 delegates across the world to be selected for the conference hosted by **Bill Clinton**(2018)
- Rank 1 in the prestigious Junior World Entrepreneurship Forum conducted by Birla Institute of Management Studies (2017)
- International Publication**: Kumar S. et al, "Plasma Arc Welding using Non-Transferred Arc"; IJSR; SJIF: 7.296 (2018)

## INTERNSHIPS

- Welding of Bainitic Steel**: *Making high-speed trains feasible for Indian Railways* (May 2018-July 2018)
  - Thoroughly researched on properties of **high strength steels**; played with microstructures to achieve desired properties
  - Innovated on modern existing techniques; driving the process of optimal micro-structure generation faster after welding
  - Formalised a project proposal for **Ministry of Steel** & future industrial trial with **SAIL** succeeding prototype development
  - Received a **Letter of recommendation** by Dr Sunil Pandey, Department of Mechanical Engineering for contentious work
- GoodEd Technologies Pvt Ltd, New Delhi**: *Revolutionizing high school education* (May 2016-July 2016)
  - Developed **ingenious learning techniques** for weak students; dispatching arduous concepts in an unambiguous manner
  - Formulated 40+ video lecture & 150+ digital text content; delivering fast and concise learning to **30K** high school students

## PROJECTS

- Lift Optimisation Model (Dr Nomesh Bolia)**: *Stochastic Modelling & Simulation* (July 2017-Nov 2017)
  - Proposed a model analysed in **R**, simulated in **Anylogic** to serve maximum number of people in minimum possible time
  - Significantly reduced forced baulking in lifts using **Operations Research** & Stochastic Models (Using Erlang traffic modelling)
- Arth**: *Replacing wood used in cremations (Industrial R and D unit, IIT Delhi)* (Feb 2018-July 2018)
  - Developed an aggregate composite fuel utilising cow dung and other additives; marking its properties comparable to wood
  - Received a grant of **2 lakhs per year** by IRD, IIT Delhi; awarded to selected projects manifesting extraordinary competence
- Machine Manufacturing & Design**: *A machine for extracting water from cow dung* (Dec 2017-May 2018)
  - Mastered concepts of injection moulding & brick making assimilating these into the design; making it **20%** more efficient
  - Monitored extensive market research & identified soft spots in existing machines; proposing **20%** cheap model for farmers

## EXTRA CURRICULAR ACTIVITIES

- Music, Dramatics and Sports**
  - Exhibited IIT Delhi on a **National front** with 10 best vocalists selected from the entire institute in **EGS, Rendezvous**(2017)
  - Performed with team of 22 musicians for **Rendezvous opening ceremony**; marking the dawn of this humongous fest(2016)
  - Winners**, Mehfil, *Institute level music competition spanning across folk, qawwali genres*; performed as **lead vocalist**(2018)
  - Runners-up** in Interhostel Table tennis among 13 competing hostels; selected in a team of 5 among 430 residents(2017)
  - Runners-up** in Ragnarok, *an Institute level music band competition among the 4 years*; performed as a **lead vocalist**(2018)
  - Runners-up** in Interhostel Pool/Snooker among 13 competing hostels; selected in a team of 4 among 430 residents(2017)
  - Lead Musician** in the Interhostel Streetplay twice; marking it to be the best-directed play in the entire event(2017&2018)
- BPlans and Entrepreneurial work**
  - Winners** at a **National level** among **120+** colleges in *Daan Utsav- Social entrepreneurship challenge*; won a grant of **2 lacs**(2018)
  - Runners-up** among **100+** startups in **National level** Bplan competition organized by Indian Institute of Foreign trade(2017)
  - Represented IIT Delhi at a **National level** entrepreneurship challenge in Enactus nationals; administering a **team of 15** (2017)

## POSITIONS OF RESPONSIBILITY

- Security Coordinator, Rendezvous'18**: *North India's largest cultural fest* (June 2018-Present)
  - Developed a **novel surveillance system** in a constrained space using **sensor technologies** and proper management of workforce
  - Collaborated with **multidisciplinary** coordinators to regulate the crowd and prevent encumbrance in a particular event
  - Spearheaded** a group of **30** exuberant students; administering security at prime locations of the institute as well as in **22 events**
- Project Leader, Arth, Enactus IIT Delhi**: *A global social entrepreneurship venture* (March 2017-April 2018)
  - Co-led a team of **15** students in project 'Arth'; creating a platform for learning and budding of potential **future entrepreneurs**
  - Made ties with **VHP, Delhi Municipal Corporation**; ensuring extensive utilization of **self-made fuel** to replace wood in cremations
- House Secretary (Acting), Zanskar House**: *Pinnacle student position in the hostel* (May 2018-July 2018)
  - Strategised **optimal allocation** of rooms to 430+ residents considering individual demands; resolving all altercations that arose
  - Enforced hostel renovation works for proper **management** of hostel; besides addressing varied grievances of the residents



# SIMRANJIT SINGH



## ACADEMIC DETAILS

| Year | Degree / Board                                | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech in Production & Industrial Engineering | Indian Institute of Technology, Delhi | 6.618          |
| 2014 | C.B.S.E.                                      | B.N.M. Sen. Sec. School, Chandigarh   | 92.2%          |
| 2012 | C.B.S.E.                                      | Shivalik Public School, Chandigarh    | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- **DISA 2017:** Awarded the **Design Innovation Summer Award** by MHRD for successful development and establishment of proof of concept of sustainable cremation solutions through **innovation in fuel composition and pyre design**.
- **TERI - New Zealand India Sustainability Challenge:** **Designed** solution on sustainable development and adjudged **winners** among 200 colleges across North India and got a chance to work with **Universities in New Zealand**.

## INTERNSHIPS

- **Digital Green, Bihar and Delhi/Techincal Team :** *Feasibility study and pilot of IVR for communication with farmers*  
-Conducted IVR pilot, detailed **user research** to identify design related challenges in effective implementation of IVR.
- **Office of Hon'ble Minister of State for Agriculture, Jodhpur :** *Fellowship Committee, Lok Sabha*  
-Co-led a team of 50 fellows to draft a plan to develop Jodhpur as a smart city through **inter-linkages of public policies**

## PROJECTS

- **SBSI,Ministry of Human Resource and Development (Alan Senate):** (May, 2018 - June, 2018)
  - Drafted solutions and **design ideas** catering to sanitation after a critical analysis of the shortcomings of **Swachh Bharat Mission** in Bhittaura cluster as a consultation for the office of **District Collector, Fatehpur(U.P)**.
- **DIY kit for Waste collectors (PVM Rao & Ambuj Sagar):** (September, 2017 - December, 2017)
  - Immersed with the community of waste collectors for four months to **design** and **model** empathy driven economic and ergonomically viable interventions in gloves and cart design to ensure hygiene and safe working conditions.
- **ARTH, cowdung based fuel and its economy (Anjan Ray):** (May, 2017 - October, 2017)
  - Developed a novel fuel for cremation from cow dung by formulating bio enzymes and oxidizers through **user centrality**.
  - Devised and prototyped an efficient production process by improvising injection molding and de-watering mechanism
  - Inducted in **IRD, IIT Delhi** for further advanced research with an annual grant of 2 Lakhs and acclaimed at multiple National and International Innovation Summits garnering financial grants and collaborations.
- **Emotional Support system for urban smartphone users (Srinivas Venkatraman):** (January, 2018 - May, 2018)
  - Envisioned and used a **systematic design approach** to develop a platform to **aggregate emotional assistance** for depressed urban youth through passive monitoring of mobile phone and rendering interactive support on need.
- **Composite Horse Shoe (Naresh Bhatnagar) (Course Project) :**
  - Schemed and **Fabricated** glass fiber based horse shoe catering to comfort for horse and the longevity of shoe.

## POSITIONS OF RESPONSIBILITY

- **Hockey , Hostel Captain, BSA :** (July,2016 - May,2017)
  - Led a rookie team to bronze medal match, first for the hostel among 11 participating teams at Inter Hostels 2017.
- **Project Leader, Arth (Enactus IITD):** (August,2016 - July, 2017)
  - Coordinated the **development** of an alternate fuel and **led** a team of undergraduates to set up a **functional model** with a localized production hub in collaboration with Nigambodh Ghat, Municipal Corporation of Delhi and V.H.P.
- **Project Executive, Enactus IIT Delhi :** (February,2016- August,2017)
  - **Runners Up** at Enactus India Nationals, 2016 among 121 professional colleges across India.
  - Nurtured **22 budding entrepreneurs** working on social initiatives in the domains across health and environment.

## EXTRA CURRICULAR ACTIVITIES

- **Nirmalya(Enactus IITD):** *Decentralized Solid Waste Management in collaboration with Municipal Corporation of Delhi*
  - Responsible for **setting up** and **operations** of composting facility, ensuring smooth functioning of involved process.
  - **Created** a financially viable network of Residential waste collectors and dealers.
- **Winner:** Comquest Business Plan, **Runners up:** Social Business Summit
- Integral part of the hostel team and active involvement in **Dramatics** and **FACC** Societies at institute level.

## TECHNICAL SKILLS

- **Softwares:** Rhinoceros, Autodesk Inventor, Solidworks, Ansys, FluSim
- **Minor Program in Design:** - Ideation Sketches, Innovation Design Process, Strategic Business Thinking, Form & Aesthetics, User Centered Design, Design for User Experience



# TANYA SINGH

## ACADEMIC DETAILS

| Year | Degree / Board                                | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech in Production & Industrial Engineering | Indian Institute of Technology, Delhi | 7.679          |
| 2015 | CBSE  | Trident Public School                 | 92.2%          |
| 2013 | CBSE  | Sunshine High School                  | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- **Bina Dewan Singh Scholarship:** Awarded to only one student from first year undergraduate student in Mechanical department
- **Singhal Scholarship:** Awarded to a first year undergraduate female student of Electrical or Mechanical Engineering

## INTERNSHIPS

- **GlaxosmithKline Consumer healthcare, Sonepat/GMS** (May, 2018 - July, 2018) : *Value Stream Mapping*  
Identified cost saving opportunities in terms of losses minimization, productivity improvement & automation advancement  
- Yielded savings of **INR 60 lakhs** per annum by improving **extraction efficiency** by **50%** during separation of solid product from husk & conducted **time motion study** of manpower to increase **time utilization** and **improve productivity**  
- Reduced wastage by **10kg** per day during dumping of raw material by shifting to tray conveyors and extension of belts  
- Proposed **automation alternative** for the identified areas for efficient functioning of different sectors of the plant

## POSITIONS OF RESPONSIBILITY

- **Security Coordinator, Rendezvous** (January, 2018 - October, 2018) : *North India's largest cultural festival*  
- Led a team of **20+ activity heads** and **50+ team heads** to manage 30K+ visitors in pronites and other events  
- Collaborated with security services to provide 40+ bouncers to **increase** the security of artists and **ensure** proper flow of the crowd  
- **Interviewed** students for proper selection of team & **deployed** aheads & teamheads across campus for smooth running of system  
- Worked as **Activity head** in the security vertical for the consecutive years: 2016 and 2017
- **Maintenance Secretary, BHM** (July, 2017 - May, 2018) : *Responsible for solving and managing the maintenance issues*  
- Elected as Maintenance Secretary by **500+** students and led a **maintenance committee** of **10+** members  
- **Decentralized** task load to manage work and designed the budget of over **20 lac+** for hostel maintenance  
- **Initiated** renovation of hostel common room, library, gym and computer room and proposed the idea of conversion of unused room into study room and revamping of Dance and Music area
- **Representative, Dramatics Club** (January, 2017 - May, 2017) : *Responsible for developing the culture of Dramatics club*  
- Initiated rigorous **talent scouting** through workshops for street, stage play to foster UG talent  
- **Managed** the group of **25+** people and **directed** the team for 3 different events: stage play, street play and Mime  
- Collaborated the workshop with other hostels for better learning of the freshers & Directed, scripted and acted in various hostel events  
- Secured **3rd position** in **Inter Hostel Stage Play competition** for consecutive 2 years : 2016 and 2017

## PROJECTS

- **Stochastic Modelling and Simulation**, Prof. Nomesh Bolia (July, 2017 - Nov, 2017) : *Approximate Q learning to model pacman game bot:*  
- Worked on an open source API provided by UC Berkely and applied **Markov Decision Process** to model the pacman game  
- Updated the features corresponding to different states provided by the API and analyzed **Bellman equation** for MDP
- **Semester project**, Prof. MR Ravi (Dec., 2016 - Nov., 2017) : *Design and Fabrication of fancase for fixed bed gasifier cookstove*  
- Performed various **design iterations** of Fancase on **solidworks** to make an accurate design for **manufacturing**  
- Fabricated **insulation** to prevent heat losses from the wall and thereby resulting in increase in the efficiency of the system  
- Attained and explained the relationship between **pressure drop** across the fan and **mass flow rate** at different voltages
- **BTP project, Prof. Sunil Pandey** (July, 2018 - Present) : *Developed hardfacing technique for enhancing life of ploughshare*  
- Emphasized the possibilities of lifetime improvement of working tools and to **increase** the **abrasion resistance** of surface layer  
- Life expectancy was extended by **welding** of new **cutting edge** and **hardfacings** on the functional areas of new cutting edge
- **Product Design and Realization, Prof. D Ravi** (Jan, 2016 - May, 2016) : *Modification of existing products with innovative ideas:*  
- Worked in a team of 4 members and designed and manufactured a product "**walker cum chair**" for old age people  
- **Designed** the model on **autocad** and manufactured the product using processes such as welding, fitting, carpentry.
- **Discrete Event Simulation**, Prof. Nomesh Bolia (July, 2017 - Nov, 2017) : *Created an event and modified the basic queuing model:*  
- Designed model on **Anylogic** employing service time distribution & delay rate to plot the daily **average waiting time** against delay rate
- **Near Net shape manufacturing**, Prof. Naresh Bhatnagar (Jan, 2017 - May, 2017) : *Design of a near net shape product:*  
- Designed a lego on solidworks and **simulated** the product for **analyzing** plastic parts and injection molds on solidworks plastics

## TECHNICAL SKILLS

- **Programming language:** C,C++
- **Relevant courses:** Numerical methods and computations, Operation research, Operations Management



# TUSHAR SAHEBRAO KANHE

## ACADEMIC DETAILS

| Year | Degree / Board                                | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech in Production & Industrial Engineering | Indian Institute of Technology, Delhi | 5.352          |
| 2014 | Maharashtra State Board                       | Shree Mahaveer Vidyalaya Lasalgaon    | 75.08%         |
| 2012 | CBSE  | Jawahar Navodaya Vidyalaya Nashik     | 10/10          |

## COURSES DONE

Intro. To Computer Science, Calculus, Profe. Ethics & Social Resp., Language & Writing Skill, Engg. Visualization & Comm., Product Realization By Manf., Profe. Ethics & social Resp.-2, Language & Writing Skill-2, Intro. To Industrial & Product, Intro. To Computer Science, Introduction To Psychology, Introduction To Statistics, Intro To Operations Research, Stochastic Modelling & Simula., Production Engineering Lab I, Social Science Approaches To Development, Control Theory & Applications, Cad & Finite Element Analysis, Manufacturing System Design, Industrial Engineering Lab - I, NSS, Rural India And Planning For Development

## QUALIFYING EXAMS

- Joint Entrance Examination (JEE) Advanced Rank: 1204 (OB)

## SCHOLASTIC ACHIEVEMENTS

- Awarded 'Panasonic Ratti Chhatr' scholarship for undergraduate studies in 2015 by **Panasonic India**.
- Participated in **12th International Level Science Talent Examination 2010** and secured **3rd Rank** in State Level.

## EXTRA CURRICULAR ACTIVITIES

- Stock market investing:**

- Independent stock market trader having extensive knowledge of market and how it is influenced by factors like **market sentiment, trends & current events** and has more than a year trading experience.
- Exploiting patterns of human psychology using **Trend, Support & Resistance, Candlestick Patterns, Moving Averages, Divergences, Fibonacci Levels** and various Technical indicators to develop trading strategies.
- Researched and made daily stock list based on **Major Markets (United States, Japan, Hong Kong), Pre-Open Market, Price Action, Volume & Market profile, Market Depth, Volatility**, and other criteria.

- Participated in **Regional Science Congress Meet** (Nov. 2010) held at **Nagpur** as a representative of J.N.V Nashik.
- Participated in **Regional Chess Championship 2011** held at **J.N.V. Raigad**.
- Participated in **Basic Trauma Life Support** Training of Jeevan Rakshak Program organized by SaveLIFE Foundation.

## PROJECTS

- To explore the feasibility of using reverberation time as a measure of occupancy level in a typical warehouse:**

- Various arrangements of sacks were made to observe behavior of RT20 and to recorded their responses.
- It was observed that there is consistent drop in **reverberation time** as the **occupancy** of the sacks is increased.
- Reverberation time derived in one-third octave bands, filtered using **REW** (Room Acoustics Software).
- Software like **LMS Test.Xpress** (Siemens), **Audacity** were used to analyse the response, spectral decay plots.

- Machine tool condition monitoring:**

- Develop a tool condition monitoring system for instantaneous diagnosis of tool to improve quality control.
- Finding correlation between **tool wear** and work **surface roughness, vibration** and **acoustic emission**.
- Processing of signals from **accelerometer, AE sensor** using **FFT** analysis using **MATLAB**.
- **CNC Milling Machine** & High Speed Steel cutting tool, Mild steel work piece were used to perform the experiment

## TECHNICAL SKILLS

- Autodesk Inventor, Solidworks, ANSYS, Microsoft excel. **Trading platforms:** Zerodha Pi, Zerodha Kite, Nest Trader.



# AAKASH VARSHNEY



## ACADEMIC DETAILS

| Year | Degree / Board                    | Institute                             | GPA / Marks(%) |
|------|-----------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Mathematics & Computing | Indian Institute of Technology, Delhi | 8.478          |
| 2015 | CBSE                              | Apeejay School, Pitampura             | 95.6%          |
| 2013 | CBSE                              | Apeejay School, Pitampura             | 10.0/10.0      |

## SCHOLASTIC ACHIEVEMENTS

- **Chartered Financial Analyst (CFA)**: Passed **CFA Level 1**; Certification for Investment Management Professionals (2018)
- **IRD Discover & Learn 1-2-3-4**: Initiative selected by IIT Delhi under the mentorship of *Prof. Ambuj Sagar* (2017)
  - Received funding of **INR 2 Lakhs p.a.** from the Institute of Research & Development, IIT Delhi for prototyping of the product
- **Publication**: Varshney, A. et al., 'Time Series Forecasting of Producer Price Index, using ARIMA', IF=3.6, IJSR (2018)
- Secured podium finishes in **7 national & state level** competitions in competitive coding, physics and chemistry (2012-14)
- **ACER, IBT**: Secured **100 percentile** in India, **99.7 percentile** in the world in Mathematics, International Benchmark Test (2012)

## INTERNSHIPS

- **D. E. Shaw India Pvt. Ltd, Financial Research Dept** (May, '18 - Jul, '18): *Predictive Analysis on Big Data & Geo-tagging*
  - Forecasted revenues of **16 firms** by building statistical models based on regression, correlation analysis & backtesting
  - Issued a buy/pass call on **two medical data sets**, amounting to **420M transactions**, by assessing their profit potential
  - Achieved **96% accuracy** in geo-tagging of credit card transactions using string matching algorithms for store-by-store analysis
  - Analysed pricing trends of medical devices by manufacturers to gain insights on their revenue streams & business model
- **Quantum Securities Pvt. Ltd** (May, 2017 - July, 2017) : *Fundamental Research and Equity Analysis*
  - Valuated **SML Isuzu Ltd.** and **Apollo Hospitals** using Fundamental Analysis and Discounted Cash Flow (DCF) Method
  - Analysed and studied the business models and revenue streams of the Healthcare & Heavy Commercial Vehicles Sector

## EXTRA CURRICULAR ACTIVITIES

- **Debating**: Awarded 'Significant Contribution to BRCA, Vindhyaachal House, 2017' for excellence in cultural activites  
 National Level: Podium finishes in **7 national and institute level** debating tournaments across 4 debating formats
  - **Winner**, Shyama Kohli Memorial, Conventional Debate, Miranda House, amongst 40+ teams (2016)
  - **Breaking Adjudicator**, IITD Parliamentary Debate, 100+ participants, 30+ colleges across India (2016)
 Institute Level: Nominated as 1 of 4 Institute Captains, IIT Delhi Inter-House Debating League
  - **Winner**, Stalwarts, the biggest fresher's debating tournament at IITD, amongst 150+ participants (2015)
  - **Winner**, Exposition, IITD Open Asian Parliamentary Debating Tournament, amongst 30+ teams (2016)
  - **Winner**, Mentorship Tournament (am-pro-am); **team captain**, participation across all 4 years (2017)
  - **House Captain**, Debating League; nominated to mentor 40 debaters & foster event participation (2018-19)
  - **Runner-Up & Best speaker**, Inter-Hostel Asian Parliamentary Debate, 25+ teams, 75+ participants (2018)
  - **Finalist**, IIT Delhi Open British Parliamentary Debate, amongst 30+ teams, across all 4 years (2017)
- **National Level Business Challenges**: Secured podium finishes in 3 national level business strategy competitions
  - **Finalist**, IIT Bombay Eureka, **Asia's largest B-Plan Competition**; among final 8 out of 9,000 teams (2017)
  - **Winner**, BimTech Business Plan Competition; **Second Runner-Up**, IIFT Business Plan Competition (2017, 2017)
  - **Quarter Finalist**, HSBC National Case Study Competition, amongst teams from all across India (2016)
  - **Runner-Up**, Enactus Nationals, judged on business impact by a panel of CEOs of KPMG & Unilever (2016)

## POSITIONS OF RESPONSIBILITY

- **Enactus**: (Jan, 2016 - Jan, 2018): Organisation working in **Social Entrepreneurship**; Trustee of Enactus IIT Delhi
  - **Co-Founder, Alo** (Jun, 2017- Dec, 2017): A venture which provides students hands-on learning experiences in diverse fields including Law, Psychology, Fashion Designing, etc, to help them make more informed decisions about their career
    - Built and led the team, to design and develop a workshop of two learning experiences; carried out its pilot testing
    - Devised & executed a **market research strategy** to model a product-service-integrated business plan for the venture
  - **Core Team Member, Enactus IIT Delhi** (Aug, 2017 - Dec, 2017): Responsible for securing funds for the organisation
    - Raised over **INR 2.5 Lakhs** by securing podium finishes in 5+ business plan and social entrepreneurship competitions
  - **Project Executive, Nirmalya** (March, 2016 - May, 2017) : City wide waste management initiative in Delhi
    - Negotiated & established collaborations with **South Delhi Municipal Corporation & Dwarka Forum** for land & resources
    - Set-up composting facilities in **5 societies** catering to **350+ households**, raising the incomes of **5 waste collectors**
- **Key Positions in Debating Club, IIT Delhi** (Apr, 2016 - Mar, 2018) :
  - **Events Coordinator**, IITPD 2018: Supervised logistics & hospitality for **200+** participants across India; 30+ colleges
  - **Chief Adjudicator**, Stalwarts 2017: Supervised & led the biggest tournament of IIT Delhi, 150+ debaters, 40+ debates
  - **Debating Representative**, Vindhyaachal House: Organised 8+ tournaments across the institute; Mentored 4 freshers



# ADITI NARWARE



## ACADEMIC DETAILS

| Year | Degree / Board                    | Institute                             | GPA / Marks(%) |
|------|-----------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Mathematics & Computing | Indian Institute of Technology, Delhi | 8.214          |
| 2015 | CBSE                              | Macro Vision Academy, Burhanpur       | 95.8           |
| 2013 | CBSE                              | RD Public School, Betul               | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- **Summer Undergraduate Research Award:** One among 4 students from batch of **64** to be awarded by IRD Unit (2017)
- **CBSE Certificate of Merit:** Conferred to **top 0.1%** students nationwide by MHRD for excellence in AISSCE (2015)
- **Indian Association of Physics Teachers:** **Top 10%** nationwide in National Standard Exam in Physics and Chemistry (2015)
- **Problem Solving Assessment, CBSE:** Secured **99.93** percentile over **30 lakh** students in Quantitative Reasoning (2014)

## INTERNSHIPS

- **FinMechanics, Mumbai** (May, 2018 - July, 2018) : Developed first implementation of **KVA** in the firm
  - Computed Counterparty Credit Risk using Standardised Approach (**SA-CCR**) across asset classes; implemented in **Java**
  - Comprehended and incorporated **BASEL III** regulations adopted by RBI for calculating Market Risk Capital Charge (**MRCC**)
  - Analysed **OpenGamma** implementation of XVA in **R**; calculated Capital Valuation Adjustment using **Monte Carlo Simulation**

## PROJECTS

- **SURA 2017: Improvisation of Integrated Production Planning Model** (May, 2017 - Oct, 2017) : Prof. Aparna Mehra
  - Analyzed Hierarchical, Integrated, Rolling horizon, Fuzzy optimisation models for Aggregated planning and Master scheduling
  - Integrated model was improvised to incorporate **uncertainty in demand, workforce allocation** and **feedback mechanism**
  - Model was implemented on **IBM CPLEX** for Java and run for simulated dataset; results were consistent with intuitive logic
- **OpenEd.AI Hackathon** (Aug, 2017) : a Global Hack week to build open-source AI for solving any problem in education
  - Developed an **Android application** in group of four which records user's experiences and suggests possible career choices
  - OCRed documents, extracted keywords using **Watson APIs**, trained the dataset obtained from survey using **Neural networks**
- **Data Science Projects** : Secured 10 (A) grade in Applied Game Theory, 9 (A-) in Statistical Methods and Econometrics
  - **Temperature Predictor:** Trained **autoregression** model in **Python** and used it to make short-term and rolling forecasts
  - **Data Mining:** Mined frequent itemsets and association rules using **Apriori** and **FP-growth** algorithms from transaction database
  - **Econometrics:** Analyzed the effect of CGPA on first salary; studied discrimination based on gender, effect of department
  - **Game Theory:** Undertook study on Private Provision of Public Goods; analyzed **income-redistribution** and **crowding-out** effect
- **Other Coding Projects** (Aug, 2016 - Nov, 2016) : Prof. Amitabha Bagchi, Department of CSE, IIT Delhi
  - **Taxi Aggregator Service:** Processed customer requests to send nearest available taxi; implemented **Dijkstra's Algorithm**
  - **Search Engine:** Developed three searches - **AND, OR, Phrase**; implemented **inverted index, hashtable, AVL tree**

## EXTRA CURRICULAR ACTIVITIES

- **Coordinator, Space Survey Project, IIT Delhi** (Jan, 2017 - April, 2017) : Campus-wide survey to collect data and feed on GIS
  - Monitored a team of **50**; strategized data collection and submission of **9** buildings in campus with **1600+** rooms and **13** hostels
  - Analyzed the data to provide solutions to **DDSP** and **DDO**, IIT Delhi to optimize **maintenance budget** and **allocation issues**
- **Mentor, UDAAN** (May, 2016) : Planned for 143 girls qualified for JEE Advanced, launched by MHRD in association with CBSE
  - Conducted topic wise sessions, question wise discussions for **60** students for conceptual understanding and trick methodologies
  - Regulated **progress pathways** of **5** mentees based on assignments and assessments; imparted telephonic guidance for 5 days
- **Aarohan, NSS** (Aug, 2015 - Nov, 2015) : Tutoring underprivileged students of class 11th and 12th for competitive exams
  - Taught Mathematics to **5** students; designed **comprehensive practice modules** and conducted doubt-clearing sessions
  - Examined and enhanced performance of the students by fabricating weekly tests consisting of **self-framed questions**

## POSITIONS OF RESPONSIBILITY

- **Mentor, Student Mentorship Programme** (April, 2017 - April, 2018) :
 

Awarded **Best Mentor** 2017-18 by Board for Student Welfare among 180 mentors for exemplary mentoring skills

  - Guided 3 freshmen to ensure comfort of incoming; attended **Mentor-training, Life-Map** session under professional counsellors
  - Addressed **40+** freshmen on "Introduction to SMP", conducted "Evening Games" for **80+**; framed content for Orientation'17
- **Executive, Mathematics Society** (Sept, 2016 - April, 2017) :
  - Conceptualized and covered orientation for **80+** Maths dept freshmen; organised fun event "Sherlocked" with **30+** participating teams
  - Initiated "Brain at Work"- posting daily puzzles, weekly articles through Facebook page leading to **huge boost** in online outreach
- **Hostel Representative, Photography and Films Club** (April, 2016 - April, 2017) :
  - Organized workshop for freshmen of hostel to nurture photography, designing and film-making; covered BRCA and hostel events
  - **Single-handedly** shot and edited hostel's entry to inter-hostel Music-video competition; managed PFC events in Rendezvous'16



# AMIT MEENA



## ACADEMIC DETAILS

| Year | Degree / Board                    | Institute                             | GPA / Marks(%) |
|------|-----------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Mathematics & Computing | Indian Institute of Technology, Delhi | 5.163          |
| 2015 | CBSE                              | JNV Bundi(Raj)                        | 82.6%          |
| 2013 | CBSE                              | JNV Alwar(Raj)                        | 9.6            |

## COURSES DONE

Intro. To Electrical Engg., Calculus, Linear Algebra & Diffe. Equa., Probability & Stochastic Pro., Discrete Mathematical Struc., Digital Electronics, Differential Equations, Optimization Methods & Appl., Real And Complex Analysis, Computing Laboratory, Computer Architecture, Analysis &design Of Algorithms, Design And System Laboratory, Optimization Methods & Appl., Real And Complex Analysis, Data Mining

## INTERNSHIPS

- **KSEPIYAS Pvt Ltd, Aligarh** (May 2018 - July 2018): *Web-development( Designed & Optimized Admin panel for AMS )*
  - Received Letter Of Recommendation from the company for excellent work in designing and developing the Portal
  - Designed and developed responsive **front-end** and efficient **back-end** services for admin users of ATTENGER where admin can upload data to the server by a form-filling method or by a file-upload method as an option for bulk data upload
  - Optimized **SQL** queries for data upload and file-upload by understanding the **response time** and **total time** of SQL queries and maintaining the perceived time for the user to receive visual affirmation that a query is being processed
  - Developed an enhanced **error reporting system** for data queries of file-upload as well as for **Server-Requests**
  - Created a smooth and efficient **navigation system** for users to ease the surfing over the ATTENGER Portal

## SCHOLASTIC ACHIEVEMENTS

- **Dakshana Scholar**: Awarded the Dakshana scholarship for which only 1% of the Jawahar Navodaya Vidyalaya students qualify

## PROJECTS

- **Optimum Frequent Pattern Approach for Associate-rule mining (Dr. B. S. Panda)** (February 2018-March 2018): Implemented **novel approach Apriori** and **FP-Growth tree** for optimum mining of frequent itemsets from retail data-set
  - Increased algorithmic time efficiency for Apriori and FP-growth algorithms by optimizing data structure
- **Detecting and Investigating Crime using Data Mining(Dr. B. S. Panda)** (March 2018 - April 2018) :
  - Prepared a report on various methods for detecting and investigating all types of crime using **Data mining**
  - Analysed methods like **Entity Extraction, Clustering techniques, Association rule mining & Deviation detection**
- **N-Queen Problem (Dr. Niladri Chatterjee)** (September 2017 - October 2017) :
  - Solved the N-queen problem in c++ using backtracking and generated all the possible solutions for it
- **Quicksort vs Timsort(Dr. Niladri Chatterjee)** (August 2017 - August 2017) :
  - Analysed the difference between running times of the **Quicksort** and **Timsort** algorithm in c++ environment
- **Insertion and Deletion of record in B-trees(Dr. Niladri Chatterjee)** (August 2017 - September 2017) :
  - Implemented the methods to insert and delete a key from **b-tree** in Java and prepared a report for the same
- **Permutations using Input restricted Deque (Dr. Niladri Chatterjee)** (July 2017 - August 2017) :
  - Developed a **java module** to check whether a permutation can be generated by using an input restricted Deque
- **Solving Heat-equation(Dr. Harish Kumar)** (February 2017 - March 2017) :
  - Implemented the **non-linear conjugate gradient method** in **MATLAB** to solve the **Heat-transfer equation**

## POSITIONS OF RESPONSIBILITY

- **Hostel Football Captain, BSA** (April 2016 – April 2017) :
  - Trained the hostel residents and led a team of 18 members in the Inter-Hostel Football Tournament 2016
  - Organized the Intra-Hostel event *Futsal* to foster new talent among students which witnessed 50+ players and lasted 2 days
  - Negotiated an increment in football budget with the administration to upgrade and add to the equipment inventory

## TECHNICAL SKILLS

- **Languages/skills:** C, Java, HTML, CSS, JavaScript, Jquery, PHP, MySql, XML, AJAX, Laravel, Matlab, C++
- **Softwares:** Autodesk Inventor, Microsoft Office, Photoshop

## EXTRA CURRICULAR ACTIVITIES

- **Regional Judo Tournament:** Participated in *Regional Level Games/ Sports meet 2012-2013* held at Jawahar Navodaya Vidyalaya Sardarshahr, (Churu, Rajasthan) and **Secured 2nd Position** in Judo (U-17, 40kg-weight category) event
- **Developed and Maintained a Website:** Developed a website and managed all the **front-end** and **back-end** coding



# ANUBHAV GARG



## ACADEMIC DETAILS

| Year | Degree / Board                    | Institute                             | GPA / Marks(%) |
|------|-----------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Mathematics & Computing | Indian Institute of Technology, Delhi | 6.325          |
| 2015 | CBSE                              | Apeejay School, Pitampura             | 94.6%          |
| 2013 | CBSE                              | Apeejay School, Pitampura             | 9.8/10         |

## INTERNSHIPS

- **IBM India, Gurgaon** (May, 2018 - July, 2018): **Data Science Intern**
  - **Document Classification** for a Financial Institution under various categories including Custodial Agreement
  - Research and application of different methods including **tf-idf, vector scoring, n-gram search** for better accuracy
- **PricewaterhouseCoopers, Gurgaon** (May, 2017 - July, 2017): **Cybersecurity Intern**
  - A detailed report on causes of spread and prevention measures of **Ransomwares** including WannaCry and Petya
  - Introduction to **Vulnerability Assessment**, penetration testing of Web-Applications and conduction of **phishing tests**

## PROJECTS

- **Taxi Aggregator Service (Prof Amitabha Bagchi)** (Course Project: Nov, 2016 - Dec, 2016)
  - Implementation of a taxi service like **Uber** using **Graphs**, with each node as location and weighted edge as path
  - Processing customer requests to send nearest available taxi through shortest path ensuring minimal waiting time
- **Mobile Phone Tracking System (Prof Amitabha Bagchi)** (Course Project: Aug, 2016 - Sep, 2016)
  - Programming a complete **mobile phone network hierarchy** with mobile phones registered at base stations
  - Implementation of call routing between different mobiles and location tracking done by locating base exchange
- **Search Engine (Prof Amitabha Bagchi)** (Course Project: Oct, 2016 - Nov, 2016)
  - Implementation of an **Inverted Index**, a structure that stores web-pages in a format that allows efficient text search
  - Implementation of **Hash Table, AVL Tree** to store words and word-positions respectively, to allow quick access
  - Development of three searches - **AND, OR, PHRASE** each of which displays web pages in order of relevance
- **Stock Exchange (Prof Amitabha Bagchi)** (Course Project: July, 2016 - Aug, 2016)
  - Programming a **stock exchange** which received buy and sell requests and processes them while maximizing profit
- **Graph Algorithms (Prof BS Panda)** (Course Project: March, 2018 - April, 2018)
  - Implemented algorithm from research papers to generate all **Spanning Trees** of a connected graph in increasing cost
  - Implemented the **Hungarian Algorithm** to solve the assignment problem to find minimum weighting match in graph

## SCHOLASTIC ACHIEVEMENTS

- **Enterprise Design Thinking Practitioner** Certification issued by IBM Design Global
- **Certificate of High Distinction in Mathematics** - International Benchmark Test, ACER, 2012
- **Bronze Award, Asia-Pacific Mathematical Olympiad** for Primary Schools, 2009 (India Centre)
- **First Position, Mathematics** - Apeejay Olympiad, 2010

## POSITIONS OF RESPONSIBILITY

- **Executive, Mathematics Society, IIT Delhi** (April, 2018 - Present)
  - Farewell 2018: Contributed to deciding the programme structure of the event and its execution

## COURSES DONE

Data Structures And Algorithms, Macro Economics, Probability & Stochastic Pro., Discrete Mathematical Struc., Digital Electronics, Computing Laboratory, Analysis &design Of Algorithms, Statistical Methods, Graph Algorithms, Data Mining

## TECHNICAL SKILLS

- **Languages and Tools:** Python, C++, MATLAB, AutoCAD
- **Proficient in:** MS Word, MS Excel, MS Powerpoint
- Currently pursuing courses on Operating Systems, Computer Networks and Theory of Computation

## EXTRA CURRICULAR ACTIVITIES

- **Social Service: Sulabh International Social Service Organisation** (December, 2017) that included:
  - Teaching Physics and Mathematics to students of class VIII at Sulabh Public School
  - Study of **Innovative Technologies** developed by Dr. Bindeshwar Pathak, Founder Sulabh Sanitation and Social Reform Movement
- **Road Safety Project** to enhance pedestrian safety in Gurgaon (May, 2016 - July, 2016) that included:
  - **On site surveys** of various stakeholders (pedestrians, traffic police) for a better understanding of the problem
  - Detailed report highlighting measures to **enhance pedestrian safety** on the problem stretch



# KOTALA VINEETH



## ACADEMIC DETAILS

| Year | Degree / Board                                  | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech in Mathematics & Computing               | Indian Institute of Technology, Delhi | 6.316          |
| 2015 | Telangana State Board of Intermediate Education | Narayana Junior College               | 93.2%          |
| 2013 | Board of Secondary Education Andhra Pradesh     | Narayana e-techno school              | 9.5/10         |

## SCHOLASTIC ACHIEVEMENTS

- All India Rank **441** among more than a million applicants in JEE Advanced, 2015 conducted for admission into IITs and NITs
- Completed **11** credits out of minimum 20 credits required to complete **Minor Area in Business Management** (2018)
- Received **Letter of Appreciation** from the Director of Admissions of ISB for the involvement in ISB- YLP programme (2018)
- As part of secondary education, successfully completed the **French** language & achieved professional-level fluency (2013-15)

## INTERNSHIPS

- **DE Shaw India Pvt Ltd, Hyderabad/Financial Research** (May 2018 - July 2018): *Data analysis on Global Telecom Industry*
  - Analyzed number portability data of telecom companies of the United States and European countries to predict **best KPIs** and implemented **statistical models** based on regression, correlation analysis & backtesting on the dataset
  - Analyzed Mobile activation data of telecom companies in the United States and China for building **financial models** to predict individual company's best KPIs and also deeply analysed on top most companies using statistical models
- **Formula Advisory, Hyderabad /Accounting and Financial Management** (May 2017 - July 2017): *Financial Planning*
  - Imbibed knowledge on the fundamentals of Financial and Accounting planning and also gained related experience based on the financial management by working with the **Creditable, Payroll & Payable** management teams
  - Implemented **financial planning** with actuals data, predicted best KPIs and applied statistics to improvise the data

## PROJECTS

- **Youtube Recommendation system: (Prof. Bhawani Shankar Panda)** (Jan 2018 - May 2018) :
  - Designed a **Multi-layer Perceptron model** to recommend the videos based on the user's video watch time, watch history, user's search tokens, same type users and other factors using **Extreme multi-class classification**
  - Implemented **weighted logistic Regression** for predicting watch-time of the user to rank the obtained videos
- **Cost of equity modelling (Prof. Neeru Chaudhry)** *Corporate Finance* (Jan 2018 - May 2018):
  - Analyzed firm performance by estimating **cost equity, P/E growth** ratio over time by implementing regression models in R
  - Studied various cost equity models to determine the **return** on the cost of equity capital and the terms affecting it
  - Statistically analyzed different variables using R and also compared other **related models** with each other

## POSITIONS OF RESPONSIBILITY

- **Coordinator, Mathematics Society** (July 2017 - May 2018) :
  - Coordinated events such as **Market Risk Analysis** talk by **Sandeep Juneja**. **Editor** of the magazine of Mathematics
  - Managed and organized the **TRYST** events such as football auction, Sherlock Holmes and club related events
  - Organized Talks from final year students for guiding freshmen and sophomores for **internships and university** applications
- **Admin-finance Executive, Entrepreneurship Development Cell, IIT Delhi** (July 2017 - May 2018) :
  - Predominantly handled **financial expenses** of the EDC club IIT Delhi. **Editor** of Entrepreneurship Development Cell Magazine
  - Organized and managed series of events on Entrepreneurship, **BEcon IIT Delhi** and all other entrepreneurial events
  - Handled the **content** part on Entrepreneurship Development Cell club's **official website** and on social media
- **Coordinator, Wellness Club** (Jan 2016 - Sept 2017):
  - Member of managing team for **content, marketing, events** and contributed to newly formed Wellness Club **website**
  - **Instrumental** in organizing **Art of Living** - Yes+ Programs in IIT Delhi and also volunteering across IIT Delhi
  - Successfully organized **IIT- Meditates** – an event that is organized weekly and attended by over **150** students

## EXTRA CURRICULAR ACTIVITIES

- **Sports and Cultural activities:** (Jan 2016 - Dec 2017)
  - Bagged **4th** among 11 hostels in Inter-hostel Cricket competition. Also, Participated in **Swimming, Water-polo, Squash**
  - Participated in Inter-Hostel **group dance** competition; Handled **maintenance** issues as the member of hostel team
- **Admin-Finance Activity head, Rendezvous'17:** Handled **financial bills** of all the events in the cultural fest of RDV'17
  - Part of the organizing team in all the club events and also handled **security** services for the final event of the fest
- **Campus Ambassador, Indian School of Business** (Nov 2017 - Apr 2018) :
  - **Marketed** for the admissions into Indian School of Business - **Young leaders program** event across IIT Delhi
- **Abacus:** Completed 10 levels in Abacus competition from UCMAS Mental arithmetic India Private Limited (2004-12)
- **National Cadet Corp:** completed NCC training and received the NCC camp certificate as an **NCC Cadet** (2015-17)



# ABHISHEK KUMAR KAMAL



## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Engineering Physics | Indian Institute of Technology, Delhi | 6.732          |
| 2014 | CBSE                          | Jawahar Navodaya Vidyalaya UP         | 87.4 %         |
| 2012 | CBSE                          | Jawahar Navodaya Vidyalaya UP         | 9.8/10         |

## SCHOLASTIC ACHIEVEMENTS

- **Minor:** Completed 12 credits out of minimum 20 credits that is required to be eligible for **Minor in Business Management**
- **Felicitated by the Chief Minister of Uttar Pradesh (2015):** Awarded **one lakh rupees, a laptop and a house** - 1 of 3 students to be felicitated for clearing JEE Advanced in spite of belonging to a humble and rural background
- **Super-30( Managed by Dr. Anand Kumar): Among 30 selected from 10,000+ students from all over the India, 2014-15**
- **Award:** Honoured with **Shiksha Gaurav Award** in Bihar Pradeshik Marwari Sammelan, 2014

## INTERNSHIPS

- **GNY Capital Ltd Noida, Delhi** (May, 2018 - July, 2018) : *Research and analysis on financial markets*
  - **Designed and implemented** a system to automate the **fund research and analysis**; a **monitoring system** for the core portfolio of the company; an algorithm to prepare **model portfolio** and the **stock value indexes** as per need
  - Developed python scripts to automate research and analysis of **Cross Asset** and **sentiments**, conducted **quantitative analysis of funds** to categorise them in green, yellow and red; Implemented **Heikin Ashi Algorithm**
  - Developed **python** scripts for data extraction from **Bloomberg** excel extension for large number of tickers
  - Received an **increment in stipend, performance bonus and letter of recommendation** from the managing director

## POSITIONS OF RESPONSIBILITY

- **President, Jansevak Foundation (Dec, 2016 - Present):** *an NGO working for the development of rural Uttar Pradesh*
  - **Co-founder & leading** various department including recruitment, public relations, strategy development, legal and finance
  - Conducted awareness and skill development workshops for **500+ households** and institutionalised **6 self-help groups**
  - Made effective and logistic plans for establishment of fruitful cottage industries; Initiated the project '**Svalamban'**
- **Hostel Athletics Captain, BSA** (April, 2016 - April, 2017) :
  - **Spearheaded and mentored** the team to overall **2nd position (3 gold, 3 silver, 2 bronze)** in Athletics Championship
  - **Organised** orientation, trials & practice sessions through out the year to foster new talent and inculcate sports culture

## PROJECTS

- **Svalamban (Aug, 2016 - Oct, 2017)** Prof. P. Vigneswara Ilavarasan(DMS, IITD): *Aimed to provide villagers a constant source of income, making them self-reliant by establishing and strengthening cottage industries in rural Uttar Pradesh*
  - **Designed** an organisational structure for implementation of self sustained cooperative societies in rural areas
  - Conducted **market research** & research on **marketing mix** and charted **SWOT analysis** for cottage industries
  - **Interacted with more than 5000 villagers** of 3 villages to spread awareness about importance of cottage industries
  - **Surveyed 200+ households** and conducted training sessions for interested people taught by hired professionals
  - **Impact:** Boosted income of **40 families of 3 villages** by **200%**; Awarded **letter of recommendation** by Professor
- **Computational Imaging** (Jul'2018-Present) Prof. Kedar Khare: Designing low cost spatial light modulator using DLP projector
  - Designing a computer generated hologram which can be displayed on DLP projector to achieve dynamic beam shaping
- **Marketing of Food Trucks** (Jan'18-May'18) Prof. Mahim Sagar: Proposed **marketing strategy for food trucks** in India
- **Numerical Analysis using Computational Techniques** (Jan'18-May'18) Prof. H.C. Gupta: Implemented Runge-Kutta, Jacobian algorithm & simpson rule; Developed Matlab script for random number generator using **Monte Carlo Simulation**

## TECHNICAL SKILLS

- **Programming Languages:** C/C++, Python, Matlab; **Relevant Courses:** Intro. to Computer Science, **Managerial Accounting and Financial Management**, Organisation and People Mgmt., **Banking and Financial Services**, Marketing Management, **Indian Financial system**, Computational Physics, Mathematical Physics, Statistical Physics, Operations Management(Doing), Venture Capital Financing(NDN351), **Security Analysis and Portfolio Management**(Doing)

## EXTRA CURRICULAR ACTIVITIES

- **Sports:** Awarded for Significant Contribution to sports activities, Shivalik House, 2017
  - Won Gold in inter hostel **Chess, 2nd position** in freshmen's 1500m event and **4th position** in 1500m inter hostel
- **Miscellaneous:** Completed **YES!+ course** (Art of Living); Cleared 1st round of **mythology** event, Rendezvous'16 (2018)
  - **Chartering Member, Toastmaster Club IITD:** Among 20, who initiated Toastmasters body at IITD (Jan'2018-Present)
  - Summer Trainee of **AXLR8R Formula Racing club**(Apr'2016 - Jul'2016); Completed **NCC(Certificate A)** level course



# AMIT KUMAR



## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Engineering Physics | Indian Institute of Technology, Delhi | 6.342          |
| 2015 | CBSE                          | JNV Pondicherry                       | 91.4           |
| 2013 | CBSE                          | JNV Jehanabad                         | 10             |

## SCHOLASTIC ACHIEVEMENTS

- **Indian National Maths Olympiad:** Got selected for regional level mathematics olympiad in Chennai region (2014)
- **Dakshana Scholar:** Selected in Joint Dakshana Scholar from 400+ selected students from all over JNV's of India (2013)
- **Winner, Science Quiz:** 3rd position amongst 60+ student in conducted by **Shrikrishna Science Centre, Patna** (2011)
- **NVS Regional Level:** Selected in Yoga at **cluster & Regional level** sports meet at JNV Banipur (2010)

## PROJECTS

- **Climate Data Processing (Saroj Kanta Mishra)** (Dec, 2017 - March, 2018) :DST Centre of Excellence in climate modeling is a major initiative taken at IIT Delhi to develop an India-Centric Climate Model (ICCM) to address certain pressing issues of climate change in India .Developed a model framework for fine projection of India's future climate and analyzed the effect of climate change.
- **Web Development(Saroj Kanta Mishra)** (Dec, 2017 - Jan, 2018): Developed the website of DST Centre of Excellence in Climate Modeling, Atmospheric Sciences.Developed Dynamic & Interactive Website that insured high traffic Search Engine Optimization ~<http://dcecm.iitd.ac.in/>

## TECHNICAL SKILLS

- C , C++ , Java , HTML , CSS , Autodesk , MATLAB

## EXTRA CURRICULAR ACTIVITIES

- **Sports:** Led hostel student-contingent and to win Weightlifting Overall General Championship Trophy (2017)
  - **Inter IIT:** Participated in Weightlifting Championship at Inter IIT tournament as a part of IIT Delhi's sports contingent .
  - **Udhghosh :** Led the team and participated in Largest Sports Festival of North India held at IIT Kanpur (2017)
  - **Sportech 2016:** Participated and led Institute team as Vice-Captain at IIT Delhi's annual sport fest . (2016)
- **Institute:** Represented and won multiple medals for Shivalik hostel across **two different sports** in Inter Hostel Events
- **Winner, Gold:** First Position in Inter Hostel **weightlifting** championship & **Shot put** Competition (2018)
- **Photography and Film Club :**
  - **Winner, First Position** in Inter Hostel Short Film Making Competition amongst 13 Hostels participation (2016)
  - **Winner, Third Position:** in Inter Hostel Music Video Competition amongst 13 Hostels participation (2016)
- **Hindi Samiti**
  - **Content Developer & Modulator, Poetry Workshops :** Initiated Creative writing and poetry in structured form for first time in IIT Delhi and formed the Hindi Poetry Circle of IIT Delhi having UG/PG Students, Research Scholars & Faculty
  - **Advisor & Co-Founder, Andaz-e-Bayaan :** Biggest event of IIT Delhi in terms of public gathering.Took Andaz-e-bayaan, the mushaira having performances from IITD Student Faculty and Staff community to great heights by increasing the crowd manifold with dedicated publicity and media coverages from IITDonAir , Media & Newspapers
  - **Advisor & Co-Founder, Chhatra Sansad :** Created public leadership in students, public spirit, social sensitivity, awareness & involvement of youth in political and democratic processes which shapes policies making ability of Students
  - **Content Developer, Hindi Samiti Magazine :** Published Hindi Samiti Magazine in which more than 20 students contributed their articles, stories and Poems & Assisted Club on technical matters which includes poster making of most events like shabdvyuh, chakravyuh, andaaz-e-bayaan, hindi standup, sahityik prasnotri, khazane ki khoj and Anuvaad

## POSITIONS OF RESPONSIBILITY

- **Vice Captain, Institute Weightlifting Team :**(March, 2017- January, 2018) :Responsible for leading the team for events
  - Ensured requisite equipment to enable **seamless team practice** by maintaining close liaison with institute authorities
  - Encouraged the team to improve their performance by displaying everyone's individual score on board during practice
- **Mentor, Udaan**(April, 2015 - May, 2015) :Project Udaan was launched by **Ministry of Human Resource Development**
  - Udaan 2016 included an intensive Face to Face contact programme for **60 girls** out of a total of 143 girls of the CBSE Udaan Programme in association with CBSE, aimed to prepare girls for engineering entrance exams
  - One among 11 mentors, selected from **70 applicants**, to provide academic support in JEE level Physics, Chemistry and Maths. Conducted topic wise & question wise discussions in order to prepare them for JEE Advanced.



# AMIT KUMAR



## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Engineering Physics | Indian Institute of Technology, Delhi | 5.813          |
| 2014 | CBSE                          | DAV Public School, Koyla Nagar        | 80.5           |
| 2010 | CBSE                          | DAV Public School, Koyla Nagar        | 8.2/10         |

## SCHOLASTIC ACHIEVEMENTS

- Captain Co-Ordination:** Appointed as the Captain Co-Ordination of DAV Koyla Nagar, Dhanbad in Class 12th (2014)
- Academic Appreciation Letter:** Received Letter of Appreciation from Ms. Smriti Irani, Hon'ble **MHRD Minister** (2014)
- Science Exhibition:** Participated in Inter School Science Exhibition Organised by Jharkhand State Government (2013)

## PROJECTS

- Web Development:** Developed the website of DST Centre of Excellence in Climate Modeling, Atmospheric Sciences  
**Supervisor:** Dr. S.K. Mishra (August 2017- May 2018): **Skills & Tools:** **HTML, XML, CSS, Javascript & Visual Basic**  
 Developed Dynamic & Interactive Website that insured high traffic Search Engine Optimization <http://dcecm.iitd.ac.in/>
- Taxi Aggregator Service:** Designed the software structure required to support taxi services like OLA, Uber etc.  
**Supervisor:** Prof. Amitabh Bagchi (Oct, 2016 - Nov, 2016) : Queries such as waiting time for costumer, total time, cost, location shortest paths by Implementing **Dijkstra's Algorithm** to get the closest location of taxi available for costumers.

## EXTRA CURRICULAR ACTIVITIES

- Significant Contribution Award** in Hindi Samiti for displaying Hindi Literary & Creative Excellence in IIT Delhi (2016-17)
- Winner, First Position** in Stand-Up Comedy among 34 Performers in **Inter-IIT Cultural Meet**, held at **IIT Kanpur** (2017)
- Solo Performance** : Performed in BRCA Orientation for **two consecutive years** in front of all Freshers (2016 & 17)
- Solo Poetry Performance**: Performed in Board for Hostel Management, Award Night in front of all IIT gathering (2017)
- Solo Performance** : Anchor & Lead Performer for **two consecutive years** in Andaaz-e-Bayaan (2016-17 & 2017-18)
- Hindi Debating**: Secured **Second Position** among **58 Participants** at **District Level** Organised by Coal India (2011)
- Founder & Head, Poetry Workshops**: Initiated workshops on creative writing & poetry for first time in IIT, prepared **600 Slides** & formed the Poetry Group of **300+ Members** having UG/PG Students, Research Scholars & Faculty (2016-18)
- Founder, Andaaz-e-Bayaan**: Biggest Event of IIT Delhi in terms of Audience (**800+ Audience**) having performances from IITD Students, Faculty & Staff community with dedicated Sponsorships, Media & Publicity (2017 & 18)
- Founder, StandUp Comedy Event**: After Winning in Inter-IIT Standup comedy, one of the growing culture in megacities where Proper training, Stage Presentation & Guidance were given to Interested Students to expand this culture (2018)
- Founder, Chhatra Sansad (Rendezvous,2018)**: Inculcated public leadership in students, public spirit, social sensitivity, awareness & involvement of youth in political and democratic processes which shapes policies making ability of Students
- Founder, Kalamkaar Series**: This **Youtube Talk show** was started to promote Hindi & Urdu Literature by Debates & Discussion about the various Poets of different era & their writings in collaboration with IITD Official Broadcasting Channel

## POSITIONS OF RESPONSIBILITY

- Director, Hindi Society** (July, 2018 - Present) :
  - Organised Several events like Chhatra Sansad, Andaaz-e-Bayaan, Hindi Stand-Up comedy, Poetry Workshops etc
  - Organised More than **5 events** in **Hindi Samiti Festival** (12th -14th sept, 2017) in Collaboration with Hindi Cell
  - Selection & Practice of Inter-IIT Team for Hindi Samiti and other Speaking art events conducted by Organising IIT
  - Published **Hindi Samiti Annual Magazine** in which more than 20 students contributed their articles, stories and Poems
  - Recordings of Poetries written by **50+ Students** in Collaboration with **IITD On Air** (IITD's official media broadcasting)
  - Collaboration with Various events Conducted by other colleges like Delhi University, DTU, NSIT, JNU & Jamia Islamia
- Overall Coordinator, Hindi Pakhwada** (September, 2017) : Organised **7 Days Festival** which Consists of **8 Events**
  - Hindi Pakhwada is a annual Hindi Festival to promote Hindi in Prestigious colleges in India conducted by Hindi Cell
  - Multiple Media Marketing & Management Work like Stage equipment arrangement, Accomodation, of several works
- Event Coordinator, Delhi Poetry Festival** (March, 2018) :
  - Led a 3-tier team of marketing, publicity, logistics, artist tie-ups and **60+** executives to successfully organize **60+ music and poetry events**, open mics & Mushaira/Kavi Sammelan for India's largest poetry fest with a footfall of **5000+** from over **200 colleges** and more than **300 performances** in India at 4 parallel venues in the campus over **3 days Festival**
  - Managed food, travel & hospitality services of **50+** Celebrities & Benchmarked **10 travel agencies** as per requirement
  - Managed media plan with over 10 TV and print media companies such as Aaj Tak, ABP, Sahara and Dainik Bhaskar
  - Optimized budget allocation and financial planning through a comprehensive strategy to manage the Poetry Festival
  - **Anchoring** in Humour-Ras Event & made a Traditional Rangoli at the Entrance of Delhi Poetry Festival



# ANEERENDRA

## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Engineering Physics | Indian Institute of Technology, Delhi | 7.3            |
| 2015 | CBSE-AISSE                    | Kendriya Vidyalaya Pragati Vihar      | 92.8           |
| 2013 | CBSE-AISSE                    | Kendriya Vidyalaya Pragati Vihar      | 10.0/10.0      |

## SCHOLASTIC ACHIEVEMENTS

- International Publications:** Authored two accepted research papers in the field of Material Science and Marketing Management
  - Ishu A. et al 'Catalytic Reduction of NOx', International Journal for Science Engineering and Research, **IF - 4.4** (2018)
  - Ishu A. et al 'Time Series Analysis of Shampoo Sales', International Journal for Science and Research, **IF - 7.294** (2018)
- 6σ Certification :** Awarded by Aveta Business Institute & SSC for displaying curriculum proficiency; scored **94%** (2018)
- NITI Aayog:** Selected for working in the prestigious **PPP & Project Appraisal Unit** by Govt. of India based on merit (2018)
- KVPY:** Qualified the written stage of the examination conducted by Dept. of Science and Technology, Govt. of India (2015)
- PSA:** Scored **99.93 percentile** in Quantitative Reasoning in the national examination conducted by CBSE, MHRD (2014)
- NTSE Scholar:** AIR 238 in the national examination and recipient of the scholarship by NCERT, Government of India (2013)
- CBSE Merit Award:** Received the merit certificate for achieving **highest possible grade** in all subjects in AISSE (2013)
- Olympiads:** **International Rank 43** in National Science Olympiad (2012), **Rank 214** in National Science Olympiad (2013)

## INTERNSHIPS

- University of Milan, Lombardy, Italy** (May, 2017 - July, 2017) : *Theory of Open Quantum Systems*
  - Derived the exact solutions and quantum dynamical maps of **Pure-dephasing spin-Boson model** with the help of team
  - Studied the **Lindblad Markovian Quantum Master Equation** and derived dynamical evolution of damped two-level systems
  - Analysed various research papers on coherence and **quantum statistics**; Presented the observations to the team

*Received a 'Letter of Recommendation' from Prof. Bassano Vacchini for show of excellent capability in completing tasks*

## PROJECTS

- Analysis of Reversible Wettability of Nanostructured Surfaces for Gas Sensing (BTP)** (July, 2018 - Present) :
  - Depositing ZnO thin films and PAH/Silicon Dioxide multilayers via Chemical Vapour and Glancing Angle Deposition Techniques
  - Increasing the diff. in peaks of angles by analysis of Photoluminescence Intensity versus cis-trans conversion plotted on ORIGIN
  - Calibrating and designing the **mobile application** which senses and measures the strength of the particular gas present

## POSITIONS OF RESPONSIBILITY

- House Secretary, Shivalik House** (April, 2018 - Present) : *Elected unanimously by 400+ residents to lead a 3-tier team*
  - Implemented a **grievance redressal forum** to address all maintenance and mess issues for Shivalik hostel residents
  - Developed an **online tracking system** for efficient usage and management of equipments of 13 sports and 9 BRCA clubs
  - Envisioned and executed the **Effluent Treatment Plant (ETP)** for waste disposal and reduced mess wastage by **25%**
  - Created a forum consisting of past secretaries to discuss new initiatives being taken and avail constructive criticism
- Logistics Coordinator, Delhi Poetry Fest** (Dec, 2017 - Feb, 2018) : *Fifth season of the largest poetry festival of India*
  - Spearheaded several key initiatives to **centralise** stall and branding allocation, security protocols and vehicular flow
  - Optimized branding space and resource allocation for sponsors by coordinating with marketing team, vendors and sponsors
  - Formulated extensive scheduling of **20+ events** spanning over 3 days to facilitate management across different venues
- Hostel Representative, BSW** (April, 2016 - February, 2017) : *Elected unanimously to organise welfare activities for the institute*
  - Assisted the management of orientation and induction of over 850 freshmen into IIT Delhi through the initial registration process
  - Raised funds from over 200 graduating seniors for grants; Conceptualised and organised the successful event ECA v/s CGPA

## EXTRA CURRICULAR ACTIVITIES

- Sports:** Participated in 10+ sporting events in the past three years across multiple sports
  - **Bronze Medal**, State Level Badminton Competition, KVS Delhi Regional Sports Meet 2011; qualified thrice for event
  - **Gold**, Inter-Hostel Football Competition 2018; **Semi-Finalist**, Inter-Hostel Football Competitions 2016 & 2017, right-back starter
  - **Captain**, Hostel Aquatics Team (2017): Increased Hostels' Points Tally by **100%**; Recruited and trained students in the team
- Dramatics and Visual Arts:** Participated in over 8 events leading to **FAC Trophy and Runners Up Dramatics Trophy**
  - **Winners**, Inter Hostel Dance Video Making Competition 2017, 'Quietus' (Editor & Director)
  - **II Runners Up**, Inter Hostel Music Video Making Competition 2017, 'Jack but Jill' (Editor & Director)
  - **II Runners Up**, Inter Hostel Street Play Competition 2018, 'Chakravyuh' (Logistics & Director)
  - **Special Mention**, Inter Hostel Charcoal Painting 2015, painting shortlisted to be presented at the IIT Delhi FACC exhibition

Led the hostel team to win **back-to-back BHM Night Trophies** (2017, 2018) and contributed to win the **BRCA Runners Up 2016**



# ANKIT IDWANI

## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Engineering Physics | Indian Institute of Technology, Delhi | 7.34           |
| 2015 | CBSE                          | Private Candidate                     | 88.80 %        |
| 2012 | CBSE                          | Ambuja Vidya Peeth, Rawan             | 9.6/10         |

## SCHOLASTIC ACHIEVEMENTS

- Department Specialization:** Pursuing Departmental Specialization in Nanoscience and Tech. from Department of Physics [2015-19]
- INSPIRE Scholarship:** Entitled to INSPIRE Scholarship for Higher Education by DST, GOI for being in the top 1% in AISSCE [2015]
- RMO:** Among top 900 students in India to clear RMO-2011 and appear for INMO-2012 and part of it's workshop [2011-2012]
- Olympiad:** Secured 269 International Rank and 4th state rank in Mathematics Olympiad conducted by Silver Zone Foundation [2011]
- Courses Done:** Microeconomics, Marketing Management, Managerial Accounting & Financial Management

## INTERNSHIPS

**National Chiao Tung University, Taiwan - Prof. Jiunn-Yuan Lin:** *Breaking of symmetry in superconductors* [May, 2018 - July, 2018]

- Fabricated **high Tc LSCO** (0.05 doping level) superconducting thin films using **Pulsed Laser Deposition (PLD)** system
- Measured it's properties like Resistance vs Temperature curve using **Physical Property Measurement System (PPMS)**
- Performed the **annealing of YBCO** oxide thin films and it's effect on the transition temperature of the superconductor
- Designed and cut the **LSAO substrate** in different angles to deposit the thin film of LSCO 0.05 and obtain it's variation

*Received Letter of Recommendation for the exceptional work done on Fabrication and Characterization of Nanomaterials*

**Jansevak Foundation:** *Setting up of a Cottage Industry in Mainpuri, a village of UP* [May, 2017 - June, 2017]

- Conducted a **survey of the current occupations** and views on alternate occupation of the people in village and **analyzing the data**
- Developed strategies to set up new occupation for villagers and a **network of buyers** and sellers for supply in the market
- Made the resources available for the people to start **their own production of goods** and sell it to market for **maximum profit**

**Pravah, New Delhi:** *Survey of submerged land and actions to get assured compensation* [December, 2015]

- Participated in a 5-day workshop to understand society, systems thinking & how it can be developed.
- Worked under Meera Ji, an Indian Social Activist in the social movement Narmada Bachao Andolan (NBA) to help the villagers of Jhabua District to get the compensation for their submerged land and collected the proofs so that their rights are not denied

## POSITIONS OF RESPONSIBILITY

**Training and Placement Cell, IIT Delhi:** Institute body leading placement and training for 2000+ students [Nov,2016-Present]

**Placement Coordinator:** *Leading a 4-tier team of 8 CTMs, 11 Executives & 200+ Volunteers* [April, 2018 - Present]

- Streamlined internship selection process: achieved **significant increase** in Phase1 recruiters offering 60+ profiles
- Re-defined team roles and policies, and introduced a recognition system for **increased ownership** in tier 2 & 3 positions

**Central Team Member :** 1 of 10 among 100 promoted to Central Team based on performance [October 2017 - April 2018]

- Led the **hospitality requirements of the whole placement process** during December, 2017 for **350+ companies**
- Pitched **80+ companies** to hire full time recruits; managed logistics & ensured smooth process of **200+ companies**

*Awarded with Exceptional Contribution,2018 and Significant Contribution, 2017 from Training and Placement Cell*

**Core Team Member, Intellify:** *An education initiative by students and alumni of IIT Delhi* [July, 2017 - March, 2018]

- Developed the Question Papers for **International Science and Creativity Olympiad (ISCO) 2017-18** to checking various skills
- Managed the smooth conduct of **Education Conclave-2018** which had Deputy CM of Delhi - **Mr. Manish Sisodia** as the Chief Guest

**Class Committee Coordinator:** Co-Curricular & Academic Interaction Council, IIT Delhi [May, 2018 - Present]

- Elected by 60+ students to solve academic and administrative issues by liaising between students and faculty
- Led reforms on curriculum policies to increase the facilitation of elective courses and summer training for students and faculties

**Volleyball - Hostel Captain & Vice Captain:** Board for Sports Activities [April, 2016 - April, 2018]

- Led a team of 12 players to secure 4th & 5th position in 2016 & 2017 in Inter-Hostel Tournament among 11 participating hostels
- Promoted sports culture by regular practice sessions and ensuring enough participation of freshers in hostel sports

## EXTRA CURRICULAR ACTIVITIES

**Social Endeavors:** *organized, managed and volunteered in various projects of NSS, IIT Delhi* [2015 - 2017]

- Green Warrior:** worked on environment related problems and found sustainable solutions to reduce the wastage
- Vidya Teaching Project:** Organized various competitions among students of KV-IIT Delhi to improve skills like verbal, pronunciation
- Munirka Teaching Project:** helped the children of Munirka basti to enhance their academic potential and fundamental skills

**Administration & Finance:** Activity Head, Rendezvous: Handled and completed several bills and recorded financial transactions [2017]

- Involved in administration work to get the necessary approvals and permission from the IIT-Delhi Administration
- Worked proactively with the whole team ensuring smooth execution and management of the whole festival.



# CHEENA AGARWAL



## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Engineering Physics | Indian Institute of Technology, Delhi | 8.534          |
| 2015 | RBSE                          | St. Patricks Sr. Sec. school          | 85.80%         |
| 2013 | CBSE                          | St. Mary's Conevt Sr. Sec. School     | 9.8/10         |

## SCHOLASTIC ACHIEVEMENTS

- **Publications** : Co-authored '*Breaking monopoly in digital markets : A case study'* (2018)
- **Jawahar Gajree Memorial Girls scholarship**: Awarded to two girls of each year for all round performance (2018)

## INTERNSHIPS

- **My personal health Record express(MphRx)** (May, 2018- July, 2018) : *Minerva - Remote health diagnosis platform*
  - Developed front end UI application for '**Columbia Asia Physician**' iOS App and implemented **pagination** and resizing webview
  - Engineered multiple custom animations, transitions and UI components for multiple screen sizes and orientations in **Swift**
  - Created **efficient**, maintainable and **reusable** UI components that can be applied to any application throughout the organization
  - Designed database using **Core Data**; Implemented network API on background thread and used multi-threading

*Received pre-placement offer for the commendable work done during internship, project being fast tracked for production*
- **Samadhan Technologies Pvt. Ltd.** (May, 2017- July, 2017) : '**StrongBox**' - Home automation Project
  - Created an intuitive *Home Automation System* moderating communication between mobile phones and home-automation devices
  - Designed embedded system using **Arduino** programming environment and printed circuit boards (PCB) using **EAGLE**
  - Integrated all IoT devices via a host hub to achieve **real time monitoring**, web remote control and a self learning device

*Received Letter of Recommendation from the CEO of the company for the outstanding performance in internship*

## PROJECTS

- **TnP Job Allocation Portal (Prof. Ragesh Jaiswal)** (Jan, 2017- May, 2017) :
  - Developed an application in Java for evaluating the **optimal** matching of a preference-based placement process
  - Utilized the **Gayley-Shapley** algorithm to obtain results for 5000 candidates and 1000 employers in under 2 seconds
- **Event Data Logging and Retrieval System(Prof. Ragesh Jaiswal)** (Jan, 2017 - May, 2017) :
  - Built a system to log and order participant data for a large scale event with over 1000 rounds and million participants
  - Stored each round data in max heap and mapped each to global **max heap of heaps** for efficient identification of winners
- **Modelling micro-swimmers** (Jan, 2018- present) :
  - **Mathematically modeled** the motion of micro-swimmers in a Newtonian Fluid using a set of stochastic differential equations
  - Simulated the motion of an active particle where several obstacles are present using reflective boundary conditions
- **I-Beacon and Eddystone** (May, 2017- July, 2017) :
  - Designed an algorithm to **pin point** the location of a mobile device from a iBeacon station using *Received Signal Strength Indicator(RSSI)*
  - **Custom coded** Bluetooth Low Energy microchip to emulate iBeacon signal to **send advertising notifications** to smartphones in proximity

## TECHNICAL SKILLS

- **Courses Done** - Data Structures And Algorithms, Marketing Management, Probability & Stochastic Processes, Statistical Physics
- **Languages And Software** : Java, Python, Swift, C/C++, Arduino, VHDL, EAGLE, BitBucket, Git, Autodesk Inventor

## POSITIONS OF RESPONSIBILITY

- **Hostel Representative, Student Affairs Council** (April, 2017- March, 2018) :
  - **Unanimously** elected out of 500+ hostel members to represent them at highest forum responsible for formulation of institute policies
  - Conducted 7 surveys and assisted to form an online portal for payments that are required to obtain '*No dues Certificate*'
  - Worked with the election coordinators to conduct and ensure smooth working of **E-Voting'18** ; Ensured the security of votes
- **Hostel Quizzing Representative** (April, 2016- March, 2017) :
  - Organized 8+ national level quizzes with nationally renowned quiz-masters such as **Maj. Chandrakant Nair** and **Suraj Menon**
  - Conducted workshops and inter-hostel quizzing competitions, increasing representation, grooming and talent identification
  - Played an instrumental role in day-to-day functioning of the club , managing events logically and helped in reviving the website

## EXTRA CURRICULAR ACTIVITIES

- **Student Mentorship**
  - **Counseled** 5 freshers to acclimatize them with academics and extracurricular activities, ensuring smooth transition into IIT Delhi
  - Organized interactive session for the freshers of department; Assisted coordinators in activities and sessions in Orientation 2017
- **Teaching Assistant - MCP100 : Engineering Visualization And Communication**
  - Assisted in conducting labs and jointly prepared weekly lab handouts, assignment questions and solution for exam papers



# HARSH PITALIYA



## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Engineering Physics | Indian Institute of Technology, Delhi | 7.753          |
| 2015 | CBSE                          | Neerja Modi School, Jaipur            | 93.40          |
| 2013 | CBSE                          | Neerja Modi School, Jaipur            | 10.00          |

## SCHOLASTIC ACHIEVEMENTS

- International Publications:** Authored 3 research papers across *Policy, Fictional Literature and Marketing Management* (2018) - 'Existentialism & Absurdism in Calvin & Hobbes'; 'OTT Market & Netflix in the Indian Subcontinent', accepted in IJSR (2018)
- KVPY:** Awarded prestigious fellowship after a nationwide 2-tier selection process by DST, Government of India (2015)
- NTSE:** Awarded certificate of merit and scholarship after a nationwide 2-tier selection process by NCERT, Govt. of India (2011)
- Olympiads:** Secured Int'l Rank 90 in National Science Olympiad, Int'l Rank 74 in International Olympiad of Science (2012)
- CBSE Merit Certificate:** Awarded for outstanding performance and scoring **perfect grades** in all 5 subjects (2013)

## INTERNSHIPS

- Max Ventures and Industries Ltd., Chandigarh** (May, '18 - July, '18) : *Strategy Development & Industry Mapping*
  - Conducted an Energy and Inventory **Audit** to map and detail consumption across **12** different sectors of the company
  - Identified potential cost-savings of INR **60.29 Million** by developing *Management Frameworks* for **52** projects
  - Realized annual savings of INR **1.95 Million** by execution of **4** energy optimization and **2** vendor-managed inventory projects

Received **Letter of Recommendation** by Maintenance Head for delivering outstanding results from cost-saving projects
- BHEL Electronics Division, Bengaluru** (May, '17 - July, '17) : *Statistical Analysis of PV Cell Production Data*
  - Achieved **maximum efficiency** (17.8%) in solar cells by employing Regression Analysis to identify optimum input parameter settings
  - Yielded **28% reduction** in *production cost* by utilizing Hotelling T-Squared Analysis for diagnosis & rectification of system errors
  - Attained **64% reduction** in *dimensionality* by Principal Component Analysis to simplify production data using **R** programming

Received **Letter of Recommendation** by Sr. Scientific Officer for achieving outstanding results from data analysis

## EXTRA CURRICULAR ACTIVITIES

- Cultural Activities :** Secured **10+** podium finishes across multiple national and institute level events  
National-Level : Only **National Just-A-Minute Master** from IIT Delhi in last 3 years
  - JAM Master**: Kamala Nehru College, annual Just-A-Minute Session; Lady Irwin College, annual Just-A-Minute Session (2018)
  - JAM Master**: Rendezvous National Just-A-Minute Competition; IIT Delhi Freshers' Just-A-Minute Session (2017)
  - Winners**, Inter-IIT Cultural Championship, Kanpur; part of Literary and Quizzing contingent that placed 2nd (2017)

Pan-Institute: Secured podium wins in **Dance, Dramatics, Film-Making, Fine Arts, Literary and Quizzing** events

  - Winners**: Dance; Duo+, annual Inter-hostel Dance event contested by 13 hostels; choreographer and lead dancer (2017)
  - Winners**: Dramatics; Street Play, annual Dramatics event; **Runners Up**, Street Play; playwright and director (2017, 2015)
  - Runners Up**: Literary, annual Open Scrabble Tournament; **Runners Up**, Quizzing, Potpourri, annual Freshers' Quiz (2017, 2015)
  - Runners Up**: Photography & Films, Dance Video Comp.; **Runners Up**; Fine Arts, Sigil Making Competition (2018)
- Lawn Tennis** : Achieved **4** podium finishes in National and Pan-institute Championships
  - Silver & Bronze** Medals, Inter-Hostel Championship; Vice-Captain, led team to consecutive podium finishes (2016, 2017)
  - Silver** Medal, CBSE **West Zone** Championship for Lawn Tennis, held at Jain International School, Nagpur (2013)
  - Gold** Medal, CBSE **National** Championship for Lawn Tennis, held at N.H. Goel World School, Raipur (2012)
- Case Studies**: Winner, Indian Case Challenge, IIT Kharagpur; Winner, Colloquium National Case Study Contest, NSIT (2017, 2018)

## POSITIONS OF RESPONSIBILITY

- Events Coordinator, Rendezvous** (Nov, 2017 - Oct, 2018): Led 50+ membered 3-tier team
  - Streamlined event progress by implementing **Gantt Chart** & preparing **Standard Operation Procedures** for **5** event categories
  - Improved *Pro-Nite* audience experience by pioneering **Open-Air Theatre Management Strategy** to centralize hospitality and logistics
  - Conceptualized and organized **State Talent Hunt** for the first time, to showcase diverse cultures from various states of India
  - Organized *round-the-clock* informal events and theme-centric professional shows by remodelling **Rendezvous Village**
- Advisory Overall Coordinator, Literati** (May, 2018 - September, 2018): Led 30+ membered 3-tier team
  - Instituted **point policy system** to enhance team efficiency for all team members to **promote transparency** and ownership
  - Incorporated **PERT Chart** in organization scheme to deliver timely and accurate work progress against the planned timeline
  - Improved fest experience by analyzing data collected through primary research of **100+ participants** and integrating them
- Representative, Literary Club** (April, 2016 - March, 2017): Organized 7 national and 9 institute level events
  - Organized Keynote Sessions by **Javed Akhtar** and **Shashi Tharoor** in collaboration with Times of India and other literary agencies
  - Initiated *Penny for Thought* as IIT Delhi's first **in-house blog**; assisted 5 students from the hostel to publish original works

Awarded **Best Representative, Literary Club and Runners-Up, Best Club** (2016-17) for exemplary contribution to literary community



# KARTIK GOYAL

## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Engineering Physics | Indian Institute of Technology, Delhi | 8.398          |
| 2015 | AISSCE, CBSE                  | S.P.C.S                               | 93.6%          |
| 2013 | AISSE, CBSE                   | S.P.C.S                               | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- Publications:** Authored two research papers across Data Analytics, Finance and Deep Learning, published in IJSR
  - Goyal K. et al. 'Stock Price Movement Prediction using Attention-Based Neural Network Framework' (2018)
  - Goyal K. et al. 'Breaking Monopoly in Digital Markets: A case study' (2018)
- SBI Student Scholarship:** Awarded by State Bank of India for meritorious performance in JEE Advanced (2015)
- Certificate of Merit:** Awarded for being the **School Top Scorer** ( Class X and XII ) and 7 years of academic excellence

## INTERNSHIPS

- Innoplexus, Financial Services** (May, 2018 - July, 2018): *Automated Business News Aggregator and Analysis Interface*
    - Developed an **ML based** real time news analysis engine to identify the target company, topic and sentiment of the article
      - Created and modeled a dataset of over 80k+ news using NLTK libraries and word embedding techniques like '*Glove*'
      - Achieved 86% avg. precision on the analysis software, currently being utilized by the organisation for **commercial use**
    - Developed Attention-based LSTM model to predict **stock price movement** on Frankfurt Stock Exchange, Germany
      - Used Keras, Tensorflow for modeling bi-directional LSTM for **relation extraction** and CNN for encoding the stock meta info.
      - Improved the model by adding each stock's 50 days **moving averages** as an input and achieved 70% accuracy on the test set
      - Submitted an abstract on '*Evaluating the event relevancy of news on stocks*' at the **Codemotion Berlin 2018** conference
- Received Pre-Placement Offer from the Vice President for outstanding performance & exemplary team skills*

- Ecole Polytechnique Federale de Lausanne, Switzerland** (May, 2017 - July, 2017): *Waveguide designing for optimum transmission*
    - **Optimised** coupling between sub-terahertz source and various metal waveguides by designing a novel experiment
    - Actualised more than **50% cost reduction** by re-designing sub-terahertz components using Solidworks and 3D-Printing
    - Proposed efficient solutions, currently being used in Temperature-jump DNP for high resolution liquid state **NMR** experiment
- Received Letter of Recommendation from 'Head of the Physics Department, EPFL' for the commendable work done*

## EXTRA CURRICULAR ACTIVITIES

- Film Making:**
    - Inter IIT Cultural Meet: Won the **Runner Up Trophy** (*Media and Journalism*), contributing to the **Overall Winner Trophy**
    - **Winner**, Short Film Making Competition, Media and Journalism Events, Inter IIT Cultural Meet, IIT Kanpur (2017)
    - **Runners-up**, The Case, 48 hr Film Making, Media and Journalism Events, Inter-IIT Cultural Meet, IIT Kanpur (2017)
  - National Level: *Part of Timeline Films (Photography and Films Society, IITD); Directed, Edited and Acted in multiple films*
    - **Runners up**, PhotoPlay, National Inter College Short Film Making Competition, Ecozest, Deshbandu College (2017)
    - **Runners Up**, Vine Vista, National Inter College Photography Competition, Rendezvous, IIT Delhi (2016)
  - Institute Dance Production:** Conducted professional workshops for Lyrical Hip-Hop, performing a sequence (2017)
- Awarded Best Fresher'15 and Outstanding Contribution towards Cultural Activities'16 by the Warden of Udaigiri Hostel*

- Case Study Competition: Finalists**, Consilium Case Challenge, NSIT Delhi amongst **50+ participants** nationwide (2018)
- Social Endeavors & Mentorship:** Closely worked with multiple NGOs for the social upliftment of unprivileged children
  - Spearheaded the education awareness campaign, conducted seminars, awarded Letter of Appreciation (2016)
  - **Counselled** 6 freshers to acclimatise them with academics and extracurriculars, conducted 1 on 1 sessions (2017)

## POSITIONS OF RESPONSIBILITY

- Creative Overall Coordinator, Rendezvous'18** (June, 2018 - October, 2018):
 

Led a 4-tier team of 8 coordinators, 45+ activity heads and 60+ team heads to organize North India's biggest Cultural festival

  - Led a team to design all graphic elements integral to branding including posters, brochures, T-shirts, logos & teasers
  - Planned and managed the production of a short story-based **first ever 'web series'** by collaborating with relevant clubs
  - Led a team of 30+ team heads for complete media coverage of 50+ events and pronites spanning 4 days of cultural festival
  - Created a transparent work distribution and **feedback framework** for unbiased and continuous evaluation of performance
- Decoration Coordinator, Rendezvous'17** (June, 2017 - October, 2017): 1 out of the 2 pre-final year Coordinators selected
  - Led a team of 26 activity heads and 50+ team heads executing decor ideas at 8 venues covering area of around **50 acres**
  - Collaborated with art studios and street artists in order to install **permanent artwork** in campus for the first time
  - Pioneered use of junkyard for executing various concepts and art installations, promoting '*Best from waste*'



# MADHAVARAM AKSHAR



## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Engineering Physics | Indian Institute of Technology, Delhi | 7.283          |
| 2015 | IPE, TSBIE                    | FIITJEE Junior College                | 95.8%          |
| 2013 | AISSE, CBSE                   | Jubilee Hills Public School           | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- Publications:** 'Change Management of Informal group', Int'l Journal of Science and Research, accepted (2018)
- 'A Perspective on Science, Technology and Development in Antibiotics', Int'l Journal of Science and Research (2018)
- CBSE Merit Certificate, AISSE :** Awarded for outstanding performance, obtaining **A1 grade** in all 5 subjects (2013)
- Certified** by University of London & Yale University for completing courses: *Global Diplomacy & Financial Markets* (2016)
- State Olympiads :** Secured **Rank 232**, National Science Olympiad & **Rank 97**, International Olympiad of English (2011)

## INTERNSHIPS

- Ernst & Young LLP, Advisory Services** (May, 2018 - July, 2018) : *Govt. of Telangana's T-FIBER Project, Bharatnet Drafted the RFP for a \$650 million T-FIBER project aimed at providing broadband connectivity to 4.7 million+ households*
  - Achieved a cost saving of **\$4 million** by optimizing OFC route lengths using Geographic Information System Mapping
  - Designed the Network Infrastructure, Scope of Work, Project Timelines and Service Level Agreements of the project
  - Facilitated **100%** quality & quantity verification by formulating selection process for Third Party Auditor valued **\$2 million**
- Indian School of Business, Hyderabad** (May, 2017 - July, 2017) : *Research & Development, Mergers & Acquisitions*
  - Created a directory of **3000+** M&A deals & identified those with unique 'Standard Industrial Classification' combinations
  - Performed advanced data gathering using SDC Financial Securities Data & LexisNexis, diagnosed data using **STATA**
  - Analysed data set of **71 Artificial Intelligence** M&A deals of leading companies and summarized their market impact

## POSITIONS OF RESPONSIBILITY

- Overall Co-ordinator, Sportech'18** (Nov, 2017- March, 2018) :
 *Led a 4-tier team to conceptualize, plan and organize 4 day sports festival, witnessing a participation from **2000+** contenders*
  - Coordinated the photography & videography coverage of **300+ matches**, spanning **11 sports**, using limited equipment
  - Formulated & managed logistics for unprecedented **live telecast & commentary** of matches on Youtube & Facebook
  - Spearheaded the design of all graphic elements integral to branding including posters, brochures, T-shirts & teasers
- Hospitality Coordinator, Rendezvous'18** (May, 2018- Present) :
 *Leading a 3-tier team to administer travel, accommodation, registration, food and logistic requirements of Rendezvous*
  - Liaised with dealers and vendors for managerial requirement of judges, sponsors, national & international celebrities
  - Maintained a **24hr** help desk and hospitality lounge to accommodate logistical needs of **1000+** contestants & students
- Station Manager, IITD OnAir, SAC** (April, 2018 - Present) :
 *Leading a 3-tier team to run IITD's Official Broadcasting Channel*
  - Gathered an outreach of **1 Million+ views** and **6,000+ subscribers** on Youtube and **5000+ viewers** on Facebook
  - Procured and maintained **radio station** equipment worth **Rs.14 lakh** for 3 years; established a culture of resource sharing
  - Successfully **created 140+ videos** consisting of podcasts, interviews, live streams, talk shows and after-movies
- Representative, Student Affairs Council, IIT Delhi** (Apr, 2017 - Mar, 2018) :
 *Unanimously elected by **500 students***
  - Conducted **7 surveys** followed by discussions to identify issues that exist in IIT Delhi & formulated **institute policies**
  - Awarded **Outstanding Contribution to Student Affairs Council** by Dean SA for commendable work accomplishments

## EXTRA CURRICULAR ACTIVITIES

- Film Making:** Managed Screenplay, Direction, Cinematography, Editing and Logistics of Institute Film Productions
- Inter IIT Cultural Meet:** Spearheaded PFC contingent to win **Runners-Up Trophy** among **17 IITs**, Media & Journalism
- **Winner**, Short Film Making Competition, Media and Journalism Events, Inter IIT Cultural Meet, IIT Kanpur (2017)
- **Runners-up**, The Case, 48 hour Film Making, Media and Journalism Events, Inter-IIT Cultural Meet, IIT Kanpur (2017)
- Director, Timeline Films-PFC Society, IIT Delhi:** Led a team of 20 students to victory in **6 national level competitions**
- **Winner**, Photo Play 3, Sabrang'18, Deshbandhu College (2018); **Runners-up**, Short Film, Crossroads'18, SRCC (2018)
- **Winner**, First Cut, Short Film Comp, St.Francis College (2017); **Runners-up**, Ecozest'17, Deshbandhu College (2017)
- **Runners-up**, Stop Motion Video Making, InterHostel (2015); **Runners-up**, Music Video Comp., InterHostel (2018)
- Awarded **Significant Contribution to Photography and Films Club** by President BRCA for exemplary contribution
- Business Plan and Case Study Competitions**
- **Winner**, Grameen IIT Delhi, Ola's Mobility Challenge, won a cash prize of **Rs.1.5 Lakh**, E-Summit, IIT Bombay (2018)
- **Runners-up**, Tesla Motors & Reliance Jio, Casebusters, Business Case Study Competition, Tryst, IIT Delhi (2017)
- **Runners-up**, Irrigation Industry and Textile Industry, Explicase, Business Case Competition, Tryst, IIT Delhi (2017)



# PAWAR GOPAL



## ACADEMIC DETAILS

| Year | Degree / Board                       | Institute                             | GPA / Marks(%) |
|------|--------------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Engineering Physics        | Indian Institute of Technology, Delhi | 5.562          |
| 2015 | Telangana State Board                | Telangana State Board                 | 95.0%          |
| 2013 | Central Board of Secondary Education | Jawahar Navodaya Vidhyalaya           | 9.8/10         |

## PUBLICATIONS & PATENTS

- Published 3 papers by "American Institute of Physics" conference proceedings which comes under google H5-Index above 15. entitled as below,
- "Sulfurization of WO<sub>3</sub> nanorods into WS<sub>2</sub> as a function of H<sub>2</sub>S/Ar partial pressure", published by **AIP**, 2017
- "Influence of substrate on growth of WO<sub>3</sub> nanostructured thin films", published by **AIP**, 2017
- "Effect of Oxygen Partial Pressure on Oxidation of Mo-Metal" Published by **AIP**, 2017

## INTERNSHIPS

- Revolutionaries and Motivations**, New Delhi , India (may ,2018 - july, 2018) :

**-Designed new model of EEG [Electroencephalography] Headset**

- 1.Led different minds of various disciplines to design new model of easily accessible and portable EEG headset, which can be linked with the smart phones with the Bluetooth connectivity and made life easier, to new era of BCI[Brain Computer Interface].which will be useful in controlling activities with mind and an emotional analyzer of oneself.  
*- not limited to detection of emotions like,depression,depth of sleep but also made various games to overcome them.*

- AMBIVAN** : New Delhi, India (Dec, 2017 - Jan, 2018)

- Conducted survey across all Delhi major hospitals on post emergency care services and provided a detailed information for the same- had got an experience of dealing different minds of highly educated doctors for the goal to improve post emergency care in New Delhi and expanding the same in INDIA.

## PROJECTS

- Deposited Nano wires of MoO<sub>3</sub>,V<sub>2</sub>O<sub>5</sub>, WO<sub>3</sub> and composite of these oxides for the designing of electronic nose.,** ( under the guide lines of **Prof. M.C.Bhatnagar** , Professor ,I.I.T.Delhi) (july,2018 - november,2018) :  
 -At **thin film sensors lab**, I.I.T Delhi :-designed Nano wires of (MoO<sub>3</sub>,V<sub>2</sub>O<sub>5</sub> nad their composites ) and studied their gas interaction.- done surface and interface studies with different gases.
- Worked on Plasma assisted thermal evaporation growth and characterization of Nano materials**  
 (under the guidance of **Prof. G. B. Reddy**, Professor, Department of Physics, I.I.T Delhi)  
 - At **Thin Film Laboratory** ,I.I.T Delhi **Thin Film Growth:** 1.Studied the growth and surface morphological characterization of transition metal oxide films (MoO<sub>3</sub>,V<sub>2</sub>O<sub>5</sub>, WO<sub>3</sub> and composite of these oxides)2.Plasma assisted sulfurization of transition metal oxides into their sulfides using plasma of H<sub>2</sub>S/Ar gas.

## SCHOLASTIC ACHIEVEMENTS

- Got **Foundation for Academic excellence & access [FAEA] Scholarship Provided by TATA and BHEL India.** :
- NCC:** Successfully completed Cadet role which has transformed my thought process to deal with life hurdles.

**Course certificate**"Intellectual property rights and Information Technology in the internet era", online course , from Indian Law Institute Delhi, New Delhi , India.(Sept,2017 - Dec, 2017) :

## EXTRA CURRICULAR ACTIVITIES

### PRESENTATIONS IN SEMINARS

- presented 3 of our papers in **2nd International Conference on Condensed Matter & Applied Physics [ICC 2017]**
- Have presented 3 of our papers shown above and got an experience to face one of most brilliant scientists of world.
- “THINK-NANO 2017”. Conducted by, IISc Bangalore, India** :presented my proposal entitled as "Nanostructured thin films of V<sub>2</sub>O<sub>5</sub> and WO<sub>3</sub> synthesized using plasma assisted sublimation process for gas sensing applications"  
 - Across the country only 200 graduates [UG &PG] are selected and given familiarization of class 100 & 1000 clean room and Nano science instruments along with the opportunity to design their proposed Ideas.

## TECHNICAL SKILLS

- leadership, Organizational Skills, Multi-tasking, Computer and Internet Skills, Written and Verbal Communication, , Time Management, Teamwork, **LANGUAGES KNOWN** English, Hindi, Telugu, Kannada, Banjara



# RUDRAKSH GUPTA



## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Engineering Physics | Indian Institute of Technology, Delhi | 7.432          |
| 2015 | AISSCE, CBSE                  | Choithram School, Indore              | 94%            |
| 2013 | AISSE, CBSE                   | Choithram School, Indore              | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- International Publications:** 'Change Management of Informal Group', Int'l Journal of Science and Research (2018)
  - 'Role of Science and Technology in Development of Iran', Int'l. Journal of Current Trends in Eng. and Research (2018)
- KVPY Fellowship Award:** Ranked 327 nationally to pursue research from Dept. of Science and Technology, GoI (2015)
- NTSE Scholarship:** Awarded after a national 2-tier evaluation for displaying academic excellence by NCERT, GoI (2013)
- NSEP Top 1%:** Placed in national top 1% out of 37,000 candidates and was awarded 'Certificate of Merit' by IAPT (2014)
- Top Scorer, AISSCE:** Certificate of Merit for being school top scorer (2015) and for exceptional performance in ANCQ (2012)

## INTERNSHIPS

- NITI Aayog, Govt. of India** (May, 2018 - July, 2018) : *Data Management and Analysis Vertical*
  - Proof of Concept** for tackling fake drugs and logistics of cold-chaining in pharma. supply chain with **Bosch & Oracle**
  - Drafted '*National Strategy on Blockchain*' to be used by **Principal State Secretaries** as reference for technological initiatives
  - Devised '*Necessity Framework*' for analysing blockchain ripe use-cases & central govt. schemes with **INR 100 Cr+** budget
  - Increased process efficiency by recommending changes to the **IOT based Blockchain** for Smart Water Mgmt. proposal  
*Received Letter of Recommendation from Adviser, Data Mgmt. & Analysis for outstanding work accomplishments*
- Dept. of Atomic Energy, CSR** (Dec., 2015- Jan., 2016): *Magnetic Analysis of Condensed Matter*
  - Observed **low-field magn. effects** on Li doped NiO system; measured susceptibility using **self-made AC susceptometer**
  - Studied history dependence of DC magnetization, **field and freq. dependence** of linear & non-linear susceptibility

## POSITIONS OF RESPONSIBILITY

- Core Team Member, Rendezvous** (November, 2017- Present): *Led a 4-tier team of 45 coordinators and 400+ organisers*
  - Publicity, Creative and Technical:** Achieved outreach increase of 20% by 'pan-India media plan'
    - Reduced delays by incorporating task-communication portal 'Trello' and 'Gantt Charts' for cross-department projects
    - Executed start-up and NGO specific deals to provide for prizes in social campaign and **reduced event costs by 50%**
  - Administrative:** Focused on sponsor centric interactive events to ensure continued partnership
    - Pioneered a monetary **Inflow/Outflow Portal**; introduced transparent reward point system to increase efficiency
    - Incorporated **RFID** based central system to streamline crowd flow by seamless allocation of passes and prizes
- Creative Coordinator, Rendezvous** (May, 2017 - October, 2017):
  - Single point of contact with **VH1, MTV, 9xM** and other television partners for delivery of tailor-made video-graphic contents
  - Conceptualised and spearheaded **debut** publicity and **outreach initiatives** like *RDV Studio* and *RDV Wants to Know*
  - Initiated and executed seamless media coverage via **barter deals** with ATK.in, Red Shadow, DCOP and Mauhallewale
- Hostel Cultural Secretary, BRCA** (April, 2017 - March, 2018):
  - Unprecedented **9 podium finishes** (300% YoY increase) across clubs; **second Runner Up trophy** in the Dramatics club
  - Debut Initiatives:** Inter College Social Meet with Lady Irwin College, DU and Institute Board Games Club with BSA  
*Awarded Best Cultural Secretary, the highest award for exemplary contribution to cultural activities at institute level*

## EXTRA CURRICULAR ACTIVITIES

- Cultural Achievements:** Secured over **10** podium finishes across **4** clubs; member of Photography and Literary societies  
Photography and Films: *Scripted & directed multiple short films at the National and Institute level*
  - Winner, Inter IIT Cultural Meet:** Runner Up Trophy (Media and Journalism), contributing to the Overall Winner Trophy
  - Winner, 'The Challenge', Short Film Making Comp.; Runner Up, 'The Case',** 48 hour Film Making among 18 IITs (2017)
  - Winner, 'Freedom', Inter Hostel Stop-Motion (2015); Second Runner Up, 'The Cyborgs', Inter Hostel Music Video (2018)**
  - Second Runner Up, 'First Name is Free', Short Film Making comp.** 'Photography Take 1', Deshbandhu College (2017)
- Advisory Panel Member:** Felicitated with highest position in hierarchy, responsible for club-centric strategic decisions  
Other Institute Level Achievements: Active participation in Literary, Dramatics and Fine Arts clubs
  - Winner, Literary Word Games Competition (2016); Second Runner Up , Potpourri, Wordplay and Literature Quiz (2015)**
  - Winner, 'Kshama Virasya Bhushanam', Stage Play (2018); Second Runner Up, Sigil Painting, Fine Arts Club (2018)**
  - Just A Minute Master:** Revived the popular literary competition & conducted workshops across multiple hostels (2018)
- Social Endeavours:** Taught physics to students belonging to the lower socio-economic community at *Aarohan, NSS (2016)*
  - Facilitated supportive **psychotherapy services & counselling** to ophthalmic surgery patients at Sarjubai Hospital (2016)
- Case Study Competition:** **Winner, '2018: A Case Odyssey', Business Case Study Competition, Tryst, IIT Delhi (2018)**



# SUMIT KUMAR

## ACADEMIC DETAILS

| Year | Degree / Board                       | Institute                             | GPA / Marks(%) |
|------|--------------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Engineering Physics        | Indian Institute of Technology, Delhi | 6.653          |
| 2015 | Central Board of Secondary Education | Sanskar International Academy         | 91.8%          |
| 2013 | Central Board of Secondary Education | Sanskar International Academy         | 10/10          |

## IIT DELHI THESIS

**Title:** Soliton Reflection in Plasma [July, 2018 - Present]

**Supervisor:** Prof. Hitendra K. Malik

**Description:** Studied theoretically the Reflection of the soliton inside inhomogeneous plasma under the effect of ion temperature, the concentration of electrons and low-temperature non-isothermal electrons in the variable magnetic field.

## INTERNSHIPS

- **BSNL, Shimla : Authentication Ciphering in Mobile Network** [December 4, 2017 - December 30, 2017]
  - Worked on **Authentication principle, Identity key Ki, Authentication algorithms** (A3 & A5) of the **GSM** Network.
  - **Ciphering (encryption) algorithms** (A8) used in **GSM** and generation of *Authentication Triplet* by Authentication center.

## PROJECTS

- **Radio Astronomy (Prof. Debanjan Bhowmik) :** [May, 2018 - July, 2018]
  - Researched about essential parameters of **Antenna** like gain, *radiation pattern, antenna temperature, reflection coefficient*
  - *Studied* about antenna used in **SARAS-2** (Sphere Disc Antenna) which operates primarily between 40-200 MHz frequency band for probing *Cosmic Dawn and Epoch of Reionization* through detection of Global 21 cm signal.
  - Simulated antennas like *Halfwave Dipole , Halfwave Monopole antenna, UHF Probe antenna, Circular Waveguide Horn antenna, Probe Feed Patch antenna, Slot-coupled Patch antenna and Sphere Disc Antenna in Ansys HFSS*.
- **Uphill Rolling** (Course Project, Prof. Sujin B Babu): [January, 2017 - March, 2017]
  - Applied **Newton's method** along-with **Bisection method** to solve equations & get more precise results for uphill rolling
  - Built *C++* program to compute height reached & angle at which pure rolling stops, taking into account friction coefficient

## TECHNICAL SKILLS

- **Languages:** C, C++, CSS, HTML, Python ; **Softwares:** Ansys HFSS, Autodesk Inventor

## COURSES DONE

Linear Algebra & Diffe. Equa., Intro. To Computer Science, Mathematical Physics, Digital Electronics, Quantum Mechanics, Computational Physics, Signals And Systems, Fundam. Of Dielectrics & Semi., Classical Mechanics & Relativ., Quantum Electronics, Minor Design Project - I, Nuclear Science & Engineering, Semiconductor Optoelectronics

## EXTRA CURRICULAR ACTIVITIES

- **Cultural and Sports :** [January, 2016 - January, 2018]
  - **Winner** in *Kaleidoscope* as IIT Delhi team, **RENDEZVOUS'16**; theme **Un-Sung Heroes**.
  - *Participated* in various **Inter-college Choreography Dance Competitions** in Delhi, representing *IIT Delhi*.
  - **Represented** Vindhyaachal hostel in *inter-hostel* competitions of *Volleyball, Hockey, Athletics and Football*.
  - *Participated* in *inter-hostel* competitions of *Street-Play, Group Dance, Movie-making, and Stage-Play*.
- **Volunteer, Print Media and Design, Open-House '17:** Helped in *smooth management and presentation of Projects*
  - Worked in 4 membered team to manage the *design and printing of posters and certificates* to revamp the *publicity*

## POSITIONS OF RESPONSIBILITY

- **Mentor, Student Mentorship Program :** [July, 2017 - May, 2018]
  - **Guided** 6 *first-year students* to ensure a smooth transition into IIT Delhi; ensuring the comfort of *incoming students*.
  - **Selected** from about 850 students through a two - way procedure of *resume* shortlisting followed by the interview.
- **Hostel Volleyball Captain, BSA** [July, 2016 - May, 2017] : **Organized** regular practices for *residents* to create better sports culture
  - Ensured regular availability and maintenance of equipment in the hostel to cater to needs of all the enthusiasts.
- **Executive, Indian Road Safety Campaign** [August, 2017-April, 2018] : Made a video about alertness on **traffic terminology**.
  - **Managed** 5 *Digital-Marketing* interns for the **Safe Road Half Marathon'18** to raise *road safety* awareness by *publicity*
- **House Working Committee, BHM** [July, 2017 - May, 2018] : **Responsible** for the formation of Annual budget of hostel
  - Advisory role for all clubs to the Warden and House Secretary; responsible for the overall functioning of the hostel.
- **Maintenance Committee, Vindhyaachal House** [July, 2016 - May, 2017] : **Contributed** in *Annual budget* formation
  - **Worked** in a team with maintenance secretary to ensure legitimate functioning of maintenance work in the hostel.



# VIKRANT SINGH



## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Engineering Physics | Indian Institute of Technology, Delhi | 5.751          |
| 2014 | BSER                          | D.B.N. Sr. Sec. School                | 84.80%         |
| 2012 | BSER                          | D.B.N. Sr. Sec. School                | 78.67%         |

## COURSES DONE

Intro. To Computer Science, Calculus, Product Realization By Manf., Electrodynamics, Mathematical Physics, Digital Electronics, Computational Physics, Signals And Systems, Pers Internships, Fundam. Of Dielectrics & Semi., Classical Mechanics & Relativ., Quantum Electronics, Minor Design Project - I, Statistical Physics, Semiconductor Optoelectronics

## SCHOLASTIC ACHIEVEMENTS

- **Scholarship for Higher Education under INSPIRE Scheme by Govt. of India (2014)**
  - Got the place in **top 1% students of 12th standard state board examination** results (BSER) 2014
  - Qualified for the **scholarship of Rs. 80,000 per year** for five years. Marks: **PHYSICS- 91, CHEMISTRY - 91**

## INTERNSHIPS

- **Xerox India Ltd., Head Office(India), Gurgaon, Strategy Deployment Department (May 2017 - July 2017) :**
  - Analysed more than 200 A3 printing products of different companies based on Market Price
  - Designed a “**Channel Value Proposition and Product Positioning**” Strategy Model
  - Improved partner customer relationships and helped the management in the launching of new products
- **Intellify, IIT DELHI, Ed-Tech Startup, (PESR Internship ) (December 2017):**
  - Analysed the various root level issues relating to the Indian Education System, visited various schools and NGOs
  - Designed sessions, activities, curriculum and content for school students and the **Teachers Forum**

## IIT DELHI THESIS

**Study of Semiconductor Optical Amplifier(SOA) : B.Tech. Thesis (August 2018 - Present )**

**Supervisor:** Prof. M.R. Shenoy

**Description:** Studying the working and different signal processing modelling of SOA Like Steady State Modelling, understanding the comparison between characteristics and experimental results,designing of SOA based devices.

## PROJECTS

- **Arduino based IoT project (Prof. SMK Rahman) (May 2018 - July 2018) :**
  - Designed a rough prototype for **Arduino based Foetal Monitor** which transmits the signals through WiFi
  - Used one serial **Arduino** which communicates to the computer or any other devices
  - Used **ESP8266 WiFi Module** which transmits and receives data online
- **1st year Manufacturing Project (MCP 101): Mechanical Spider (January 2016 - May 2016):**
  - Worked with a team of 3 students to design a wood-based **Mechanical Spider** based on a mechanism of spider's walk
  - Analysed the motion of the gait of legged animal by using **Klann Linkage Mechanism**
  - Uses: Can function as a **wheel replacement** for rough areas and stairs   **Grade: A-**

## POSITIONS OF RESPONSIBILITY

- **Executive, Publicity CSR, Marketing, IRSC IIT Delhi Team 2018 (January 2018 - May 2018) :**
  - Worked in marketing, publicity team of the event "Safe Road Half Marathon'18" organized by **IRSC IIT DELHI**
  - Managed the team of **5 Digital Marketing Interns** for the marketing of the Marathon event
  - Covered all the social media platforms for marketing and publicity as a team
  - Made a video to promote a Coding competition" **Road Safety Hackathon '18**" organised by IRSC IIT DELHI
  - Worked in various brainstorming sessions related to the marketing of events organized by IRSC IIT DELHI

## EXTRA CURRICULAR ACTIVITIES

- **National Cadet Corps , IIT DELHI (July 2016 - December 2016):**
  - Completed 100 hours in various practice sessions organised by **NCC, IIT Delhi**
  - Attended the **Winter NCC Camp** organised by NCC IIT DELHI (01-05 December 2016)
- Participated in three hockey matches and (25x400m) Relay Race in **Inter Hostel Sports** (2nd Semester 2015-16)

## TECHNICAL SKILLS

- C, C++, HTML, Java, Python, Ubuntu, LATEX, MatLab, Autocad, Visual Code Studio



# YASHTI AGRAWAL



## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Engineering Physics | Indian Institute of Technology, Delhi | 8.103          |
| 2015 | CBSE                          | Nalanda Academy                       | 95.6/100.0     |
| 2013 | CBSE                          | Shree Swaminarayan Academy            | 10.0/10.0      |

## SCHOLASTIC ACHIEVEMENTS

- **Kishore Vaigyanik Protsahan Yojana (KVPY) 2013:** Awarded the *fellowship* after 2-tier selection process by **DST, GOI**
- **National Talent Search Exam (NTSE) 2011:** Recipient of the distinguished NTSE *scholarship* awarded by **NCERT, GOI**
- **Indian National Mathematical Olympiad (INMO) 2014:** Selected for INMO based on the performance in **RMO'13**
- **National Standard Examination in Junior Science (NSEJS) 2011:** Certified for being among **Top 1%** statewise by **HBCSE, TIFR**
- **National Standard Examination in Physics (NSEP) 2012:** Certified for being among **Top 1%** centerwise by **HBCSE, TIFR**

## POSITIONS OF RESPONSIBILITY

- **Coordinator, Infrastructure, Rendezvous 2018, IIT Delhi:** *Selected after a rigorous two-tier process*
  - **Led** a *3-tier* team to manage all the *infrastructure* requirements of North India's largest cultural festival
  - **Formulated** extensive *scheduling* for **100+** events spanning over **4 days** *facilitating* management of **20+** venues
  - **Strategised** location based *resource allocation* plan to optimise distribution of assets across space and *time*
  - **Administered** the *tender* process and *ensured* proper *coordination* with multiple vendors to acquire and manage resources
- **Activity Head, Security, Rendezvous 2017, IIT Delhi:**
  - **Led** a *two-tier* team to manage and execute *core security* procedure to manage the crowd of **50k+** visitors in IITD cultural fest
  - **Devised & executed** a two-phase security setup to ensure streamlined flow of crowd across **20+ venues** on all 4 days
  - **Collaborated** with in-house *security agencies* to increase security of artist and ensure proper crowd management for the event

## PROJECTS

- **Case Study: Tamper Vulnerability of Electronic Voting System (Dr. S. Banerjee)**
  - **Identified** and analysed the set of *functional* and *non-functional* requirements of a secure electronic voting system
  - **Proposed** an *E2E verifiable* DRE-like user interface with *tamper-evident* system to enhance *transparency & credibility*
- **Case Study: Inefficiency of Public Distribution System (Dr. S. Banerjee)**
  - **Analysed** major *drawbacks* of the present PDS like food non-availability, leakage, irregular functioning & ghost beneficiaries
  - **Modelled** a system to address these issues via *E2E digitisation* using smart cards, GPS & *discretised* packaging system

## EXTRA CURRICULAR ACTIVITIES

- **ABU Robocon (Asia-Pacific Robot Contest) 2017:**
  - **Collaborated** on a team of **20** to *develop* and *design* a semi-automated robot with ability to aim disk at multiple targets
  - **Secured** **10th** position representing the Institute among **112** teams participating in *Asia's largest robotics competition*
  - **Developed** the code structure and **managed** implementation of *modularity* in subsystems to improve system *reliability*
  - **Enhanced** *accountability, negotiation* and *coordination* skills; developed written and verbal *communication* skills
- **Intermediate'09 and Elementary'08 Drawing Grade Examination:**
  - Awarded **A Grade** among **2 lakh** students appearing for the IDG and EDG exam by **State Education Board of Gujarat**
- **Social Endeavours**
  - **MR Children Day Care (Dec'17):** Apprenticed to care centre providing special care of MR & physically challenged children
    - **Trained** the children to develop *interpersonal skills*, achieve *self-awareness*, become *independent* & socially responsible
    - **Planned** out appropriate activities and exercises to help in improving their *cognitive skills* (under Doctor's supervision)
    - **Imparted** awareness among parents to *recognise* their child's special needs for *progressive skill development*
  - **NSS Volunteer (2015 - 2016):**
    - Regularly **volunteered** as *Blood Donor* and in *Collection drives & Nature Walks* conducted across the IIT Delhi campus
    - **Participated** in AIIMS Road Safety & Role of First Responders workshop & was trained to perform *CPR & Heimlich manoeuvre*
  - **Volunteer, Old Age Home (2016):**
    - **Organised** festivals, birthday celebrations and various other recreational and entertainment activities at these centres
    - **Assisted** them with using technology like mobile phones, ATM and also organised visit to temples, gardens, & picnics
  - **Volunteer, DNipCare (2015 - 2016):**
    - **Volunteered** at *Delhites' National Initiative in Palliative Care (DNipCare)* & *YouWeCan Cancer Awareness* programme
    - **Offered** emotional *support* for patients suffering from long term, bed-ridden, incurable, life limiting diseases including Cancer

**Other Interests:** Playing Ball Badminton & Chess, Swimming, Reading eclectic mix of novels, Performing arts, Sketching  
**Relevant Courses:** Professional Ethics & Social Responsibilities, Intro. to Psychology, Product Realisation, Design Practices



# RAHUL KUMAR



## ACADEMIC DETAILS

| Year | Degree / Board                        | Institute                                       | GPA / Marks(%) |
|------|---------------------------------------|---|----------------|
| ---  | B.Tech in Engineering Physics<br>BSEB | Indian Institute of Technology, Delhi<br>JAGDAM | 5.342<br>73.6  |
| 2013 |                                       | COLLEGE,CHAPRA,SARAN                            |                |
| 2011 | BSEB                                  | HIGH SCHOOL DINDAYAL PUR<br>SIWAN               | 68.8           |

## IIT DELHI THESIS

**Title:** Gallium Oxide for power devices(BTP)

**Supervisor:** Dr. Rajendra Singh

**Description:** - The **superior** material properties of Gallium Oxide, including a bandgap much larger than those of SiC and GaN, promise power devices with even higher V<sub>br</sub> and efficiency than their SiC and GaN counterparts.

- **Proposed** a new oxide compound semiconductor Gallium Oxide as a promising candidate for power device applications.

## INTERNSHIPS

- **Jaago Manav, Mayur Vihar** (July, 2018 - July, 2018) : **Social Internship- Operations and Technical Management**
  - Volunteered for a month long **Teaching Project** in collaboration with NGO
  - **Held Medical Camps** in Mayur Vihar to ensure fitness and well being of the society
  - Significantly contributed in developing the official website of JAAGO MANAV using the platform HTML.
  - **Managed encrypted employee database** to facilitate data record and extraction of employees through SQL Implementation

## PROJECTS

- **Analysis of passenger & freight vehicular movement(Geetam Tiwari)**(January ,2018- April, 2018).
  - **Classified volume count** of Freight vehicles at 70 different locations spread across Delhi region.
  - Analysis of **speed vs volume curve** to check the Freight ( light and heavy weight vehicles ) vehicular movement .
- **Bus bunching and Bus route analysis (Geetam Tiwari).**
  - Updated the Road network of Delhi region using **ArcGIS** map platform.
  - **Estimated the congestion of Road** to achieve time efficiency by minimizing the time delay .
- **Trip Assignment of Heavy & Light Goods Vehicle (Geetam Tiwari)** (August, 2017 - December, 2017) .
  - Analysis of passenger & freight vehicular movement, calculating **Time restriction value & ROW of Roads.**
  - **Updating road network** of Delhi using Google map, estimating **congestion** of roads to provide time efficiency.
- **Social Entrepreneurship**(Jan,2018 - May,2018)
  - Successfully solved the situations arising due to combining the three **Government** initiatives of linking **mobile phone** with **Aadhaar card** and **Jan dhan** accounts.
  - Found the **innovative** solutions and its applicability in day to day life for the crucial problems being faced by the humanity across this nation as a **Social Entrepreneur**.
- **Course project (P.V.M. Rao):**
  - Manufactured **Cryptex lock** as a term project MCP101
- **Course project (Dr. D. Ravi Kumar):**
  - Manufactured a key chain using Computer numerical control (CNC) machine with the help of digitized data MCP101

## TECHNICAL SKILLS

- C++,Web development(HTML,CSS,JAVA SCRIPT),Matlab , MS Office.
- ArcGIS,AUTODESK INVENTOR,SOLIDWORK,PHOTOSHOP.

## EXTRA CURRICULAR ACTIVITIES

### • Sports

- Represented hostel in the **Inter Hostel BASKETBALL** tournament and lead team successfully to the **semifinal** and organized numerous practice sessions.
- Represented hostel in the **Inter Hostel Volleyball** tournament and organised numerous practice sessions.

### • Social Work (IIT Delhi NSS)

- Volunteered for teaching the blind students in **NAB(National Association of Blind)**
- Successfully volunteered for teaching the students of the slums of Munirka.
- Handled the operation of collection drive for the poor people on the large scale.



# AASHI AGARWAL



## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Textile Engineering | Indian Institute of Technology, Delhi | 8.78           |
| 2015 | CBSE                          | Delhi Public School Ghaziabad         | 97.8%          |
| 2013 | CBSE                          | Delhi Public School Ghaziabad         | 10.0 CGPA      |

## SCHOLASTIC ACHIEVEMENTS

- International Publication:** Co-authored 2 papers in diverse disciplines in peer-reviewed international journals (2018)
  - A. Agarwal et. al 'Comprehensive Study of Macroeconomic Forecasting Model based on Neural Network', IJSR, IF 7.296
  - A. Agarwal et. al 'Financial Appraisal of Automobile Giants in India', International Journal of Applied Research, IF 5.2
- Department Rank 3:** Based on overall CGPA among 100+ students in the department of Textile Technology (2018)
- IIT Delhi Semester Merit Award:** Awarded in 3 semesters for being in top 7% students; scored SG 9.0+/10 (2017-18)
- Certificate of Merit(CBSE):** Top 0.1% of candidates in English & Mathematics; first position in school DPSG (2015)
- Certificate of Merit:** Awarded for academic excellence for six consecutive years by school DPS Ghaziabad (2009-15)

## INTERNSHIPS

- Retail and Media Division, EXL Analytics, Gurgaon** (May, 2018 - July, 2018)
 

Implemented chatbot for leading retail chain according to business needs by employing advanced NLP techniques

  - Executed project using Spacy library & Python programming & presented results to leaders in technology & business
  - Led to potential saving of 30 lakh manhours by designing proof-of-concept that can perform reading comprehension
  - Achieved 81% accuracy to classify natural language queries by developing sophisticated linear support vector model

Awarded Pre Placement Interview Offer & Letter of Recommendation for diligent performance & outstanding work ethics
- Transformational Health Division, Frost & Sullivan, Gurgaon** (May, 2017 - July, 2017)
 

Formulated long term care strategy for market entry for key player in Saudi Arabia by working closely with industry experts

  - Assessed 30 doctor interviews & identified 5 crucial bottlenecks faced by hospitals in 3 major cities in Saudi Arabia
  - Identified 3 major care areas & proposed optimal pricing to drive recommendation & patient acceptance to avail services

Conferred a Letter of Recommendation for exemplary performance & commendable work done during the internship

## POSITIONS OF RESPONSIBILITY

- Mentorship Coordinator, Board For Student Welfare, IIT Delhi** (April, 2018 - Present)
 

Led a team of 140 mentors & 26 representatives selected via 3-stage process & trained them to guide 850 freshers

  - Revamped Language Mentorship by collaborating with Toastmasters and introducing concept of Hindi Language Mentors
  - Crafted Career Counselling Programme to create awareness for various fields via online information repositories
  - Envisioned and directed Life Experience Sharing Sessions between mentors & mentees to enhance their interaction
- Executive Team Member, Speranza Festival, IIT Delhi** (April, 2018 - September, 2018)
 

Spearheaded a team of 50 students for end to end realization of Speranza, the annual youth festival of IIT Delhi

  - Increased 20% participation by channelizing Speranza into weeklong fest; introduced targeted publicity for each event
  - Directed management of infrastructure, publicity of events and crowd engagement both during and before festival
  - Partnered with NGOs and other student bodies to conduct events for different horizontals & spread awareness via them
- Central Team Member, Training & Placement Cell, IIT Delhi** (April, 2017 - December, 2017)
 

Led a 2-tier team of 100 volunteers & 6 executives to coordinate Training & Placement Activities for 900+ students

  - Achieved notable 2 fold increase in Phase 1 Summer Internship selections by streamlining internship selection process
  - Streamlined internship selection process thereby achieving 2 fold increase in Phase 1 Summer Internship selections

Awarded with Exceptional Contribution, 2018 & Significant Contribution, 2017 from Training & Placement Cell, IIT Delhi

## EXTRA CURRICULAR ACTIVITIES

- Fine Arts & Crafts:** Represented Kailash Hostel in events sculpture making, oil painting and wall painting
  - Kailash Decoration Secretary: Coordinated hostel events & festivals with 9 representatives & 4 secretaries (2016-17)
  - Pioneered the theme of stall of Kailash in the BHM night and led a team of 50 students for its presentation (2017)
  - Increased participation by ideating & organising attractive decoration related workshops for 50 freshers (2016-17)
- Music:** Played synthesizer in Inter Hostel Western Music Competition Jukebox for two consecutive years
  - Trinity College London: Awarded Distinction (>75% score) in initial 3 levels of synthesizer exam (2011-13)
- Literati, IIT Delhi:** Winner, Best Media House Award, ICan Conference, a corporate political stimulation (2015)
- Social Endeavours:** Volunteered in 3 projects aimed at educating students & reducing electricity usage
  - Vidya Teaching Project: Held appealing sessions with students to alleviate their confidence in Maths (2015)
  - Munirka Teaching Project: Designed science worksheets for economically backward students in slums (2016)
  - Green Warrior: Optimised electricity consumption in 10 houses by advising residents on usage habits (2016)



# ABHIGYAN SRIVASTAV



## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Textile Engineering | Indian Institute of Technology, Delhi | 8.048          |
| 2015 | CBSE                          | UPRAS Vidyalaya, Vasant Vihar         | 93.4%          |
| 2013 | CBSE                          | Delhi Public School, R. K. Puram      | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- **Minor Degree:** Specialization in **Economics**; Earned 17 credits out of a minimum of 20 credits as of 6th semester
- **Scholar Badge Holder:** Awarded for excellent academic record for both years spent in Delhi Public School, R. K. Puram (2011-2013)
- **Language Proficiency:** A2 Level Certification in **German** speaking, writing and reading from Max Müller Bhavan, New Delhi (2012)
- **All-Round Achievement:** Awarded to 1 student in entire batch in Berlin British School, Germany. (2010)

## INTERNSHIPS

- **Voxomos Systems Pvt. Ltd., NOIDA** (May, 2018 - Jul, 2018): *Software Developer*  
A **machine learning** and signal processing startup working on core product development in speech and image processing
  - Decreased running time by **50%** by developing a video stitching code for GSharp App; Used for **commercialization** of live project
  - Implemented **Optical Character Recognition** software using machine learning, for Hindi & English text on notices, road signs & PDF
  - Designed a Multilayer Perceptron **Neural Network** from scratch, trained it on MNIST Database to recognize handwritten numbers
- **Ernst and Young, Gurgaon** (May, 2016 - Jun, 2016 ): *Indirect Taxes Department*
  - Filed **Central VAT Credit** refund claims & checked Form A-2 for the same, in order to prepare documents for the refund
  - Mined government websites for data on Value Added Tax Rates of **700** different commodities in **8** Indian States
  - Wrote a **merger intimation** on amalgamation of Companies; Prepared detailed reports regarding consistency in their documents
  - Prepared a **detailed comparison** of agreements of telecom companies on the grounds of tariff, penalty, invoicing schedule, etc

## EXTRA CURRICULAR ACTIVITIES

- **Finalist:** Reached the **Zonal Finals** (Phase 3) of ET Campus Star; A technical competition designed by **Economics Times** (2018)
- **Finalist:** Among the **Top 6** teams in the Zonal Finals of **Samsung E.D.G.E.**; a pan India technical case study competition (2017)
- **Finalist:** Among **Top 5** teams in campus round of Techspark; pan India case study competition organised by **Hindustan Unilever** (2017)
- **Social Endeavors:** *100+ hours of volunteering and social service with the National Service Scheme*
  - National Association for Blind:** Taught handicrafts, language & computer skills to visually impaired children (2017)
  - Indus Action:** Visited slums & gender resource centers on the outskirts of Delhi to spread awareness about RTE (2016)
  - Munirka Teaching Project:** Taught Physics, Chemistry & Maths to students from low income houses on CBSE and JEE pattern (2016)
- **Creativity Activity Head, Tryst 2017** (October 2016 - February, 2017): *Technical Festival of IIT Delhi*
  - Designed **10+** posters, sponsorship banners and edited videos for the promotion of the events of the festival
  - Hosted eminent personalities like founding chairman of World Blind Cricket, Balaji Vishwanathan, Economist Amiya Baghchi, etc.
- **Photography and Filming:**
  - Carried out the photography coverage of Kalaidoscope Dance Competition and Street Play in **RDV'16** on behalf of PFC and Dance Club
  - Shot and edited a dance video for the dance crew, Definition Crew, in IIT-Delhi; Video received 1 million+ views on YouTube (2016)
- **Football: Winner** among **13** teams in Arman Dogra Football Tournament, Delhi Public School, R. K. Puram (2011)

## POSITIONS OF RESPONSIBILITY

- **Coordinator, Economics Club** (July, 2017 - May, 2018): **Creativity** in charge of design of promotional videos and posters
  - Guided a team of **6** executives to design promotional posters, standees, videos, etc for online and offline promotion of all events
  - Engendered an increase of **500** likes on the Facebook page of the club within the **first two months** of taking charge
  - Managed & co-organised events such as discussions on pressing topics; case study competitions, panel discussions & talks
  - Enhanced outreach by organising events with eminent personalities eg. CEO PwC; Secy. MHRD; Padma Shree awardees

## PROJECTS

- **Data Structures and Algorithms** (Jan,2017 - May,2017): *Under Prof. Ragesh Jaiswal*
  - Rendezvous Events Manager: Used a heap of heaps data structure to rank scores of a million participants in various events
  - Training and Placement Cell: Developed a stable matching algorithm for suitable allocation of companies to students
- **Life Expectancy (Econometric Methods)** (Sep, 2017 - Nov, 2017): *Under Prof. Ankush Agarwal*
  - Linear Regression Modelling for cross-sectional data of 180+ countries in **R-programming** using various statistical tests and plots
  - Accurately estimated the dependency of life expectancy on parameters like GDP per capita, healthcare facilities, education, etc.
- **Structural Transformation in India and Liberalization (Macroeconomics)** (Apr, 2018 - May, 2018): *Under Prof. Debasis Mondal*
  - Undertook extensive **literature review** regarding structural transformation in countries like USA, Portugal and Turkey
  - Carried out comprehensive **econometric analysis** & study on the role of liberalization in structural transformation in India



# AYUSHI NARULA



## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Textile Engineering | Indian Institute of Technology, Delhi | 8.077          |
| 2014 | CBSE                          | Delhi Public School, Ghaziabad        | 91.6           |
| 2012 | ICSE                          | Holy Child School, Ghaziabad          | 95.4           |

## SCHOLASTIC ACHIEVEMENTS

- **Minor Degree :** Business Management Conferred by DMS, IIT Delhi; Completed 12/20 credits with a CGPA of **8.5/10** (2018)
- **Intl. Publications, JTFM Vol I :** *Effect of knit and print parameters on peel strength of hybrid 3D Printed Textiles* (2018)
  - co-authored with Dr. Chris M. Pastore, Thomas Jefferson University and Prof. David Schmelzeisen, ITA, RWTH Aachen
- **Letter of Recommendation :** Awarded for comprehensive study on *Sustainable Development* by Dr. Richa Kumar, IITD (2018)
- **Parmarth Samithi Award :** Received **Merit Certificate and trophy** for ICSE/2012 by Honourable Home Minister of India (2012)
- **Merit Certificates :** Awarded for **7 consecutive years** for exhibiting academic brilliance, DPS and HCS. Gzb (2005-2012)

## INTERNSHIPS

- **JSW Group, Mumbai** (May, 2018 - July, 2018): Finance Division
  - **EBITDA Estimator & Analyser** : Achieved monthly savings of **INR 5.5Cr.**, increased EBITDA by 9% in JSW Coated Products
  - Delivered an end-to-end tool for **material planning** and **order scheduling** to be used by production planning and control
  - **Minimised** loss-making orders by developing a **sales tracker** to analyse **profit sensitivity** based on steel thickness
  - **ERP Costing** : Captured cost elements having an impact of **INR 20.4Cr.**, improved the production cost estimate by 2.5%
  - Enabled **real-time** access to earnings and production cost per order, guiding sales strategy using a dynamic cost model
  - Awarded **Certificate of Appreciation** by Managing Director; Recommendations to be implemented in **coated products**
- **RWTH Aachen, Germany** (May, 2017 - July, 2017) : 4D Textiles Research Group
  - Engineered **150+** 3D Printed textile **samples** and statistically examined adhesion strength between polymer and fabric
  - Examined the geometry of **20,000 fabric pores** and established its effect on durability of 3-D printed hybrid structures
  - Received a **Letter of Recommendation** by the supervisor for outstanding insights in the ongoing 4D Textiles research

## POSITIONS OF RESPONSIBILITY

- **Overall Coordinator, BRCA, Rendezvous 2018** (March, 2018 - Present) : Selected to lead a 130+ membered 2-tier team
  - Directed **10** club and **13** cultural secretaries to devise and execute **50+ events** attended by participants from **250 colleges**
  - Introduced **15+ informal events** and *Cultural Workshops*, an Indian Cultural Extravaganza, for **40,000 attendees**
  - Increased the outreach to **2 Lacs** by implementing **first ever** publicity structure including inter city prelims and club videos
  - Achieved greater monetary sponsorship and introduced *Incentive Awards* for winners by restructuring marketing plan
- **Cultural Secretary, Kailash Hostel** (April, 2017 - April, 2018) : Secured podium finishes in **5 out of 9 BRCA Clubs**
  - Administered and negotiated an **increment of 30% YoY** in integrated annual **cultural budget** for BRCA societies
  - Increased the involvement of post graduate students in cultural activities through a centralised communication system
  - Envisioned and executed Debutant 2017, **India's largest fresher debate championship**, increasing participation by **20%**
- **Coordinator, IIT PD** (Jan, 2018 - March, 2018) : Led 3-tier team to organise **70+ debates over three days**
  - Improved outreach of IIT PD on social media by collaborating with IITDOOnAir and releasing adj test debates for publicity
  - Increased the prize money of 13th IIT PD by **20%**; spearheaded the marketing efforts to garner sponsorship of **INR 1Lac**

## EXTRA CURRICULAR ACTIVITIES

- **Debating** : Podium finishes at **15 National and Institute Level Debating Tournaments** across diverse formats
  - **National Level** : Winner, General Championship at Second Inter IIT Cultural Meet hosted by IIT Kanpur
  - Winner, Speaking Arts Trophy, Asian Parliamentary Debate and Turncoat, Inter IIT Cultural Meet, IIT Kanpur (2017)
  - **Second Runner up**, Adjudication at Second Inter IIT Cultural Meet, among participants across **23 IITs** (2018)
  - **Second Runners up**, QED, National Annual Parliamentary Debate Tournament at BITS Pilani, among **30 teams** (2017)
  - **Institute Level** : Nominated to the Debating Club advisory panel, tasked with advising the current secretary (2018)
  - Winner, Best Club Award for exemplary year-round contribution to BRCA and IIT's Debating community (2018)
  - Winner, Best Adjudicator, Inter Hostel Asian Parliamentary Debate Tournament; **Adjudicator, Stalwarts** (2017-18) (2017)
  - **Second Runner up**, Inter Hostel British Parliamentary Debating Tournament, one of the **top 8** teams out of 25 (2017)
  - **Second Runner up**, Best Speaker and Adjudication, Gladiator, Premier Knock out Debating Tournament (2016-18)
  - **Chief Adjudicator**, Gladiator, formulated debate procedures and policies, supervised **150** participants (2018)
  - Conferred with **Best Representative** for year-round contribution to Debating club's activities and initiatives (2017)
- **Journalism and Literary Activities** : Spearheaded a **team of 10** to conceptualise and create hostel yearbook
  - Winner, Crossword, Scrabble Tournament; **Finalist**, Mirch Masala, Literary Clubs' Freshers tournament (2015-17)
  - **Chief Editor, Altesse** : Pioneered the **first** ever Hostel Magazine; **Quiz Master** and **JAM Master**, Kyaari (2017)



# ABHIJEET SINGH SOLANKI



## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Textile Engineering | Indian Institute of Technology, Delhi | 6.867          |
| 2015 | ISC                           | Laurels School International,Indore   | 86.8           |
| 2013 | ICSE                          | Fatima Convent H S School,Nagda       | 90.8           |

## SCHOLASTIC ACHIEVEMENTS

- **Samsung EDGE:Finalist**,among top 2 teams selected for zonal round of **National level** technical case study competition (2017)
- **HUL Techspark:Finalist**,among top 5 teams selected for **Pan-India case study** competition organised by **HUL** (2017)
- **National Cyber Olympiad**: Secured an Overall International Rank of 479,securing **90** percentile organised by SOF (2015)
- **Inter-School G.K. Competition**: Received Cash Prize worth INR 5000: **First** position in the city,among **500+** participants (2013)
- **Gold Medal**: Awarded Certificate of excellence for proficiency in academics;Secured **First rank** for 5years consecutively (2008-13)

## INTERNSHIPS

- **Aditya Birla Group, Grasim Industries Ltd., Nagda** (May, 2017 - July, 2017):

*Gained hands-on experience at World's largest **producer of Viscose Staple Fibre** with about 24% world's market share*  
 - Successfully completed a project on "Different Spinning Tech.& Modern Techno." directly under **General Manager**, Sales Division.  
 - Achieved 6% rise in production by designing new preparatory process & reducing downtime for ringframe machines  
 - Researched the feasibility of new processes. Successfully interpreted data to draw conclusions about managerial actions and strategy.

*Received Letter of Recommendation from the General Manager for excellency in project.*

- **FITSO, Gurgaon** (Dec, 2017 - Jan, 2018): Part of a 6-member **Core team**

- Organised **first ever IIT DELHI ALUMNI REUNION RUN**,Themed "*Promise to the environment*".Led a team of **20+** volunteers.  
 - Observed **500+** participants across **IITD alumni** from batch '61 to '17.**Marketed** and effectively apportioned a budget of nearly **8 lacs**.  
 - Successfully **managed** pre-event and during event tasks and problems, solved them insitu.

*Received Letter of Appreciation from co-founder for exemplary performance, enthusiasm, and dedication.*

## POSITIONS OF RESPONSIBILITY

- **Training & Placement Cell, IIT Delhi** (Sept, 2016 - Present):

**Placement Coordinator** (May 2018 - Present) : *Strive to ensure smooth recruitment processes*

*Leading 3-tier team of 8 CTMs,11 Executives and 200+ volunteers for conducting training and placement of 2000+ students.*

- **Envisaged** and **spearheading** biggest ever flagship event 'Career Conclave 2.0' with **35+** senior executives from **global 500** companies  
 - Collaborated with **5+** companies to **organize** preparatory **workshops** preparing **2500+** students with their overall skills  
 - Reformulated placement policies & cell functionalities to improve visibility & transparency for students as well as companies

**Central Team Member** (Apr 2017 - May 2018) : *Spearheaded a 2-tier team of 200+ volunteers and executives*

- **Managed** logistics and scheduling of **300+** companies; Implemented realtime automated slotting of **150+** firms  
 - Initiated Placement scheduling & streamlined the selection process,pitched **80+** companies to hire full time recruits.

**Head Volunteer**(Sept, 2016 - Mar, 2017) Ensuring smooth process & responsible for logistics requirement for all companies.

Awarded with '**Exceptional Contribution**', 2018 and '**Significant Contribution**', 2017 from Training & Placement Cell

- **Hostel Dance Club Representative, BRCA** (Apr 2016 - May 2017) : *mentored and motivated freshers to inculcate dance culture*

- **Choreographed** and led hostel team to secure **first** position in "Duo+ Competition '16" amongst **13** competing hostels  
 - Co-administered Pro-night **Kaleidoscope,Rendezvous'16** comprising **National Level Finale** of Dance Competition

- **House working Committee**, Aravali Hostel (May, 2018-present): *Hostel managing committee under Warden and House master*

- Active member, Worked closely with House Secretary for the proper functioning of the hostel.

## EXTRA CURRICULAR ACTIVITIES

- **Dance Club**: Active member,*Participated in all inter-college and Institute level dance events spanning multiples styles*  
 -**Winner, Duo+ Dance Competition**: **choreographed** sequences and ushered hostel team to secure the **First** position (2016)  
 -**Inter Hostel Group Dance**: led the team,enthusiastic freshers and set up the routine for consecutive 3 Years. (2018 ,2017 & 2016)  
 -**Institute Dance Production (IDP)**:Lead Performer,amongst **85+**for the event showcasing **Institute's best** dancing talent.(2016,17)

Awarded '**Outstanding Contribution**',2018 and '**Significant Contribution**',2017 to **Cultural Activities**,Aravali Hostel

- **Other Clubs**: Engaged in 10+ diverse events of Photography&Films, Dance, Fine arts, and Quizzing club.

-**Runner-Up**, Music Video Competiton: Acted and performed in a music cover video for Inter Hostel Competition (2016)

- **Winner,"Stratazenith"** the national level event of Indian Game Theory Society with **50+** teams from various colleges (2018)

-**Finalist**: National level Case study Competition 2018: *A Case Odyssey*, TRYST IIT Delhi (2018)

-**Exuberance**: Co-organized and managed **first ever** cultural festival of Aravali hostel, spanning three days (2016)

-**Hospitality Activity Head, Rendezvous 2017**: Managed hospitality needs of **11800+** participants, **200+** guest speakers

Instrumental in catering **20+** Nobel Laureates & Star night attractions **Salim Sulaiman, Zakir Khan, & Kailash Kher**



# ABHISHEK AGRAWAL



## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Textile Engineering | Indian Institute of Technology, Delhi | 8.479          |
| 2014 | RBSE                          | Creative Public School, Gangapur city | 84.4%          |
| 2012 | CBSE                          | Kendriya Vidyalaya, Gangapur city     | 9.4/10         |

## SCHOLASTIC ACHIEVEMENTS

- **IITD Semester Merit Award:** Awarded for being in **Top 7%** of entire institute for **2** consecutive semesters (2016-2017)
- **Global Winner, Belgium:** G-STIC Challenge; Invited to address, **United Nations partners at G-STIC Conference** (2017)
- **Silver Medal, Korea:** Awarded '*The Best of Best Invention*' at Korea International Youth Olympiad by President, WWIEA (2017)
- **Pearl Award:** Among **5** students across institute conferred for exemplary performance at international conclave (2018)
- **Greater India Semi-Finalist,** '*Global Business Case Challenge*' by Schneider Electric selected amongst **10000** teams (2018)
- **Minor Degree:** Specialisation in **Business Management** by DMS, IIT Delhi having earned 12 out of 20 Credits (2018)

## INTERNSHIPS

- **Ernst and Young LLP, Gujarat** (May, 2018 - July, 2018): *Transaction & Business Advisory Services*
  - **Maritime Cluster Project:** Worked on live project worth **373 Cr. INR** with Gujarat Board; developed project documents for client
    - Conceptualised **incentivisation model** for migration of service providers; proposal incorporated in marketing strategy
    - Analysed **financial models** of **8** international clusters; recommended *venture fund* model to support Gujarat cluster
    - Assisted in development of case study on *RO-Pax Ferry*, a **234 Cr. INR** strategic project under Sagarmala initiative
  - **Ease Of Doing Business (EODB) Project, GOA:** Supported in compilation of **400+** business reform action plan services
    - Analysed EODB index of **28** regional competitors & mapped 200 service recommendations to the technology sector
    - Awarded '*Letter of Recommendation*' for commendable work accomplishments and the value added during the internship
- **Aditya Birla Fashion & Retail Ltd, Bengaluru** (May, 2017-July, 2017): *Business Excellence Division*
  - **Reviving Indian Heritage Project:** Conducted marketing research and evaluated business demand and supply trends
    - Analysed trends to facilitate handloom market expansion & forecasted industry growth using **seasonal naive** approach
    - **Benchmarked best practices** to develop proposal for strategic market entry in untapped emerging *Bandhani* market

## POSITIONS OF RESPONSIBILITY

- **Entrepreneurship Development Cell (eDC) IIT Delhi** (July, 2017 - Present): Umbrella body of **Student Incubation Center Co-Overall Coordinator** (Sep, 2018 - Present): Selected through rigorous process for supporting entrepreneurial ecosystem
  - Spearheading a **3-tier team** of **70+** coordinators and executives across **8 divisions** organising **pan-India** level events
  - Formulated the **social entrepreneurship** vertical & launched **Youth for Kerala** campaign by initiating collection drives
  - **Core Team Member** (May, 2018 - Sep, 2018): Negotiated with consulting firm to provide personalised mentorship to students
  - **Founder**, IIT Delhi's **1st** Entrepreneurship Knowledge portal, developed & published **15+** issues with C-Suite executive
  - Coordinated India's largest Blockchain Hackathon with **NITI Aayog**, ConsenSys & **Ethereum** co-founder, Joseph Lubin
  - **Coordinator, Corporate & Alumni Relations** (July, 2017 - May, 2018): Managed sponsorship from IITD Alumni Association
  - Organised Fireside Chat with **Dara Khosrowshahi** (CEO, Uber) and Roped in **25** notable CXOs & VCs in BEcon 2018
  - Orchestrated **TEDx Delhi** with **30** International speakers & Blockchain Hackathon with prizes worth **40 Million INR** angel fund
- **Representative, Student Affairs Council (SAC) IIT Delhi** (March, 2017 - March, 2018):
  - Unanimously elected by **350+** UG & PG students as representative in the apex policy making student body of IIT Delhi
  - Pioneered *Student Career Mentorship* under supervision of **Director, IIT Delhi** to facilitate on-campus counselling services
  - Formulated critical institute policies; **1 of 4** representatives to implement **e-Election** policy for IIT Delhi student election

## EXTRA CURRICULAR ACTIVITIES

- **Business Case & Innovation Challenges:** Participated in **10+** National & International competitions
  - **National Runner-Up, Colloquium**, an annual case competition by debating and literary society of NSIT Delhi (2018)
  - **Runner Up, Smart India Hackathon** (MHRD): Represented IITD in Pan India Hackathon; won **75K INR** prize money (2017)
  - **Finalist, Innovation Challenge**, Enactus IITR; **Finalist, Saksharth**, Finance and Investment Cell, St. Stephen's (2018)
- **International Conference & Youth Dialogue:** Nominated for **6+** National & International conferences
  - **UN MGCY**: UN General Assembly mandated official space for youth, Appointed as **Youth Focal Point** for Digital Skills (2018)
  - **1 of 500** selected for *India-Peru & India-Venezuela* Youth Dialogue organised by their respective missions to India (2018)
- **Debating & Public Speaking:** Selected for **5+** Regional, National and International level tournaments
  - **Invited** as speaker for *World Summit on Information Society*, **Switzerland**; policy session on ICT Application (2018)
  - **Winner, Intra Hostel Asian Parliamentary Debate** among 30 teams; Delegated at *Asia World MUN* at South Korea (2016)
- **Social Endeavours:** Internship with *NSS IIT Delhi & Indian Road Safety Campaign*; Conceptualised awareness drive (2016)



# ACHIN GOYAL



## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Textile Engineering | Indian Institute of Technology, Delhi | 7.561          |
| 2014 | AISSCE (Class XII, CBSE)      | H. Vidya Vihar, Bhiwani               | 89.4           |
| 2012 | AISSE (Class X, CBSE)         | H. Vidya Vihar, Bhiwani               | 10.0           |

## SCHOLASTIC ACHIEVEMENTS

- **International Publication:** Goyal A, et al. *Factors affecting Movement of Indian Stock Market*, IJSR [IF 7.3](Accepted)(2018)
- **International Publication:** Goyal A, et al. *Fundamental Analysis Of Hedge Funds*, IJPSAT [IF 2.077](Accepted)(2018)
- **Minor Area Specialization in Business Management :** Conferred by DMS, IITD ,Completed **18/21** credits requirement(2018)
- **Six Sigma Certification :** Awarded by Aveta Business Institute & SSC for displaying curriculum proficiency; secured **94%** (2018)
- **Samsung Edge Case Study Competition:** National Level ,among **top 6 teams** selected from the North East Zone(2017)

## INTERNSHIPS

- **Futures First Info Services, Gurugram, India ( May 2018 - July 2018):** *Financial market research on brent crude oil*
  - Analyzed live market feed to track ICE brent crude **futures, outrights & spreads** to get better insight with instant anomaly detection
  - Formulated long-term strategies by considering **relative value analysis, inventory reports**, economic & political factors
  - Created portfolios generating **maximum Sharpe ratio** by analyzing different technical indicators for the brent crude oil market
  - **Devised short term strategies** using pricing indicators including Bollinger bands, Fibonacci retracements & MAD
- **Goodyear Polymer Center, Akron, USA (May, 2017 - July, 2017):** *Synthesis of bifunctional Initiator*
  - Synthesized bifunctional initiator (bis-benzodichloro-cyclobutanol) used in manufacturing high quality **PIB&SIBS** polymer
  - Reduced **manufacturing cost** of SIBS by making use of the bifunctional initiator via carbocationic polymerization
  - Studied effect of solvent concentration on molecular weight having direct impact on mechanical properties of polymer
  - Devised **set of parameters** for manufacturing SIBS polymer of desired weight, strength & elasticity in **stents**

## POSITIONS OF RESPONSIBILITY

- **House Secretary, Aravali House** (April, 2018 - Present): *Elected by 500+ students to lead a team of 8 secretaries & 12 representatives*
  - Pioneered **key infrastructure projects** - library, computer room, FAC room; pending since the hostel establishment
  - Undertook development of **hostel website**, providing a grievance redressal forum and news dissemination platform
  - Achieved **20% reduction** in food wastage and hostel resource expenses using regression analysis on previous data
  - **First office bearer** to implement systems like mess menu rating, issuing sports equipment & registering maintenance complaint online
- **Coordinator, Hospitality, Tryst** (September, 2017 - February, 2018) : *Annual technical fest of IIT Delhi*
  - Spearheaded a team of 20 to facilitate food and logistics requirement of 200+ guests, judges & speakers in **50+ events**
  - Reduced **travel expenses & idle time of cabs** by using GANTT charts to find optimum number of cabs required
  - **Revamped the team structure** by dividing into 3 work groups for increasing accountability & efficiency of team
- **Core Team Member, Speranza'16** (April, 2016 - September, 2016) : *Annual youth festival of IIT Delhi*
  - Single-handedly organized a campaign with more than **200** completed registration for **PAN card** and **aadhar card**
  - Organized and managed the inauguration ceremony with **Rajat Sharma** and **Diwakar Vaish** as chief guests
  - Organized adventure sports of **Human Zorbing** and **Paintball** with a participation of more than **1000 people**

## EXTRA CURRICULAR ACTIVITIES

- **Student Welfare Activities :** *Active Contributor in Welfare of IITD students*
  - Conducted orientation and registration of 800+ freshmen as a **BSW Representative** in liaison with IITD administration
  - Planned & Managed a **drug abuse campaign** via various social media & on ground events like testimonial series and seminars
  - Devoted **100+ hours** for social work as a volunteer in Aarohan project of National Service Scheme (NSS) IIT Delhi
  - Pioneered mentorship of **10+ underprivileged students** selected via tests across **20+ government schools** in NCR
  - Awarded for **significant** contribution to Training & Placement Cell, IIT Delhi(T&P) for year round contribution (2016)
- **Entrepreneurial Endeavours :** *Part of the entrepreneurial development cell (edc IIT Delhi)*
  - Organized **e-summit**, hosting dignitaries from all over India, consisting of workshops, guest lectures and business competitions
  - Organized **startup showcase** with many emerging startups and eminent startups including **Mobikwik**, **Makemytrip** and **OYO**
- **Cultural Activities**
  - **Winner**, Duo+, inter hostel dance competition, conceptualized and managed logistics and stage back drop (2016)
  - Organized first ever intra-hostel cultural fest **Exuberance'16 & Socials'16** to enhance the culture of Aravali Hostel
  - Adjudicated and Organized intra hostel Parliamentary Debate for the debating society of IIT Delhi
- **Activity Head, Rendezvous'17 :** *Annual cultural festival of IIT Delhi*
  - Supervising hospitality and logistical requirements of professional artists, judges & 1000+ participants in **60+ events**
  - Liaised With Dealers & vendors for managerial requirement of professional artists, national and international celebrities.



# ADIT GUPTA



## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Textile Engineering | Indian Institute of Technology, Delhi | 8.112          |
| 2014 | C.B.S.E                       | Delhi Public School Ghaziabad         | 92.00          |
| 2012 | C.B.S.E                       | Delhi Public School Ghaziabad         | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- **Exchange Student Erasmus+:** Technical University of Liberec (TUL) Liberec, Czech Republic (2018-19)
  - Awarded prestigious **Erasmus+** Scholarship worth over **3220 Euros** by Erasmus+, Programme of the European Union
- **Minor Degree in Business Management:** Completed courses on Operations, Accounting, Marketing, Finance & Economics
- **Asia Investment & Banking Conference:** Delegate for conference on corporate advisory and Finance, Hong Kong (2017)
- **Yale University:** Awarded certificate in **Financial Markets** by Prof. Robert Shiller for completion of self initiated course (2017)
- **CBSE Merit Certificate:** Awarded for outstanding performance and scoring perfect grades in all subjects, AISSE(2012)

## INTERNSHIPS

- **Technical University of Liberec(TUL), Czech Republic:** Modelling and Simulation of Composites (May, 2018 - Jul, 2018)
  - Fabricated **20+** different composite profile frames by **programming** KUKA Robots which reduced production time by **30%**
  - Calculated trajectory of robot for **optimum** directional orientation of **fibre placement** in the manufacturing of composite
  - **Developed** FEM model with **70%** accuracy using ANSYS and Creo to study mechanical property of composites
  - Worked on the **Simulation** of Textile **woven structures** and developed a FEM program using Wisetex and ANSYS

Received **Letter of Recommendation** for the exceptional work done on *Prediction of mechanical properties of composites*

## PROJECTS

- **Fabrication of Heat Shield for Grenade Launcher, RPG-7 (Prof. B.K. Behera):** (Jul, 2018 - Present)
  - Developed **Analytical** and **Computational** model to predict the Compressional properties of the **filament wound** composite
  - **Optimised** Process and Machine parameters governing the behaviour of composites and enhanced the efficiency by **15%**
  - Collaborated with **Defence Research & Development Organisation (DRDO)** for experimental analysis of the heat shield

## POSITIONS OF RESPONSIBILITY

- **Tryst, IIT Delhi:** North India's largest technological festival held annually at IIT Delhi (Oct, 2016 - Present)
- Core Team Member, Tryst'19: 1 of 6 members out of a batch of **1000+** students nominated (Aug, 2018 - Present)
  - Leading a 4-tier team of **60+** coordinators and **200+** volunteers for seamless management of events over 4 days
  - Revamped Finance Model with comprehensive **auditing** through **Industrial Research and Development** wing of IITD
  - Coordinated with the faculty of IITD to facilitate the formation of **Purchase Finance Committees (PFCs)** and **bill reimbursement Coordinator, Admin and Finance:** Built a platform for **Comprehensive Budget Management** (Sep, 2017 - Feb, 2018)
  - Ensured proper coordination within an organising team of more than **200+ members** for conducting the 4-day technical festival
  - Minimised cash based **transactions** and made it fully digital in line with **GOI's Cashless/Digital India Initiative**
- **Training and Placement Cell(T&P), IIT Delhi:** Institute body leading recruitment for **2500+** students (Nov, 2016 - Present)
 Placement Coordinator: Leading a 4-tier team of 8 CTMs, 11 Executives and 200+ volunteers (Apr, 2018 - Present)
  - Streamlined internship selection process; achieved significant **increase** in Phase1 recruiters offering **60+** profiles
  - Re-defined team roles and introduced a recognition system for **increased ownership** in tier 2 and 3 positions
  - Led reforms on campus policies to **increase visibility** and **transparency** of campus placements for students and companiesCentral Team Member: 1 of 10 among 100 promoted to central team based on performance (Apr, 2017 - Apr, 2018)
  - Scheduled and Managed **30+** companies in **Phase 2 recruitment session** (Jan-Apr), highest among all CTMs
  - Pitched **120+ companies** to hire full time recruits; managed logistics & ensured smooth process of **300+** companies

Awarded **Outstanding Contribution to T&P Unit (2018)** and **Significant Contribution to T&P Unit (2017)** by IITD Senate

## EXTRA CURRICULAR ACTIVITIES

- **Tennis:** Represented IIT Delhi in 2 **National Level** Tournaments and Hostel in 3 Institute Level Tournaments
  - 2nd Runners-Up, **Bronze Medal**, Udghosh, IIT Kanpur's annual Inter College Sports Championship (2017)
  - 2nd Runners-Up, **Bronze Medal**, BITS Pilani Annual Open Sports Meet(BOSM) (2016)
  - **Gold Medal**, Inter Hostel Tennis Championship;**Hostel Captain**, led team to Second consecutive podium finish(2018)
  - **Gold Medal**, Inter Hostel Tennis Championship (2017);Runners-Up, **Silver Medal**, Inter Hostel Tennis Championship(2016)
- **Social Endeavours:** Actively participated in various events and workshops with aim to give back to society (2016)
  - **SUKRITI:** Worked on the **feasibility analysis of toilet building sites** in rural areas and on the **Sanitation awareness program**
- **Mentor, Student Mentorship Program, IIT Delhi:** Guided 4 first-year students to ensure their smooth transition into IITD(2017-18)
  - 1 of **154** selected amongst batch of **850+** through a 2-tier process of profile shortlist, followed by extensive interviews



# MINAAL DEMBLA



## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Textile Engineering | Indian Institute of Technology, Delhi | 8.174          |
| 2014 | AISSCE (CBSE)                 | Rajiv Gandhi Hr. Sec. School          | 89.2%          |
| 2012 | AISSE (CBSE)                  | Carmel Convent Sr. Sec. School        | 10.0           |

## SCHOLASTIC ACHIEVEMENTS

- **International Youth Leadership Conference, Malaysia:** Nominated to represent IITD to strengthen int. relations (2018)
- **Google Women Techmakers:** Selected to disseminate global scale initiatives to empower tech-oriented women (2018)
- **Asia Youth International Conference, Thailand:** Selected among **9343 applicants** to represent India in summit (2018)
- **Research Internship Scholarship, Taiwan:** **1 in 28** people worldwide, selected for fully-funded research project (2017)
- **Publications:** *First author of 4 papers on OLED optimization; all accepted in international conferences*
  - Carrier Mobility Effect of ETL; accepted in "Int. Workshop on Active-Matrix Flatpanel Displays & Devices, Japan" (2018)
  - Electron Mobility Effect of Hole Transport Layer on OLED; accepted in "Int. Display Manufacturing Conference" (2017)
- **MBD Talent Search Exam:** Secured **2nd position in district** as per meritorious performance in the examination (2012)

## INTERNSHIPS

- **Impendi Analytics, New Delhi** (May, 2018 - Jul, 2018): *Procurement Cost Reduction Strategy*
  - Devised an analytical model to save **\$3.7 mn- \$5.5 mn** on **\$68 mn** spend basket implementing a multi-wave approach
  - Expanded RFI response database by **30%**; consolidating profiles of **20+** incumbent and alternate supplier companies
  - Designed baselines, supplier strategy decks and negotiation playbooks for **top 15 suppliers** using **Excel, VBA & Cube**
  - Received Letter of Appreciation from the organisation in the recognition for commendable project accomplishments*
- **National Tsing Hua University, Taiwan** (May, 2017- July, 2017): *Parameter Optimization for OLEDs*
  - Designed comprehensive model to **increase lifetime** of OLED device by investigating effects of charge carrier mobility
  - Executed simulations on *SETFOS 4.2* for **150+ combinations** to analyse trends in electric field and recombination peak
  - Received Letter of Recommendation from the professor for outstanding work and highest grade for personal conduct*

## POSITIONS OF RESPONSIBILITY

- **House Secretary, Kailash Hostel** (Apr, 2018- Present) :
 

*Unanimously elected by 600+ students to lead a 3 tier team of 8 secretaries and 13 representatives across all 5 boards*

  - Implemented the **highest-ever budget**; pioneered over **10 projects** covering *Green Kailash* and *Bicycle Re-use Camp*
  - Achieved **50% reduction** in food wastage by analyzing previous data, waste weight monitoring and regressive publicity
  - Initiated and single-handedly managed the installation of *sanitary napkin dispensers & incinerators* in **30+ washrooms**
- **Maintenance Secretary, Kailash Hostel** (Apr, 2017- Mar, 2018) :
  - Decreased redressal time by **80%** via implementing Decentralized Complaints System and Online Discussion Forums
  - Initiated installation of **Vending machines** in the institute, involving extensive survey and core analysis of **25+ vendors**
- **Fundraising Manager, BloodConnect** (Jan, 2017- Apr, 2017) :
  - Boosted the organisation to raise **4.5 lakhs** in *Letzchange Campaign*, **highest donation** in history of BloodConnect
  - Collaborated with *SAB/C* to introduce *Karke dekho* campaign; collected **1447 units** from **24 drives** across Delhi NCR
- **Publicity Coordinator, Tryst'18** (Sep, 2017- Feb 2018) :
  - Led a **3 tier team of 30+ executives** to manage **50+ campaigns** to organize North India's largest college technical fest
  - Achieved a **30% hike** in online outreach and successfully managed on and off ground publicity of **70+ events** of the fest

## EXTRA CURRICULAR ACTIVITIES

- **Dramatics club:** Performed over **30** professional, national and institute level plays; founded theatre society **Anvesha**
  - Winner**, Rendezvous, National Street Play Competition; *The Uncounted 3.5 Crore*, **director & lead actress** (2016)
  - Runners Up**, Inter IIT Cultural Meet, Street Play Competition, among 23 IIT teams; **director & lead actress** (2018)
  - Runners Up**, Inter-Hostel Junior's Mono-Act Competition, among 30+ participants; **playwright & director** (2018)
  - Runners Up**, Inter-Hostel Street Play Competition, **first solo podium** for the hostel; **playwright & director** (2016)
  - 2nd Runners Up**, Inter-Hostel Senior's Mono-Act Competition, among 25+ participants, **playwright & actor** (2018)
  - Best Actress**, Inter-Hostel Stage Play Competition, *Final Solutions*; **director, screenwriter & protagonist** (2017)
  - Best Directed Play**, Rendezvous, National Street Play Competition, among 75+ contesting teams; **director** (2017)
- **Photography and Films Club:** Directed and Scripted videos at institute and national level; featured on **Being Indian**
  - Winner**, Inter IIT Cultural Meet, Online Short Film Making Competition, *The Challenge*, **director & actress** (2018)
  - Winner**, Film Making Competition, Sabrang, cultural festival of Deshbandhu College, **playwright & actress** (2018)
  - Winner**, Short Film Competition, Crescentia, cultural festival of St. Francis College, **director & protagonist** (2017)
  - Winner**, Inter-Hostel Music Video Competition, among 13 participating hostels, **protagonist & screenwriter** (2017)



# AMAN AGRAWAL



## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Textile Engineering | Indian Institute of Technology, Delhi | 7.828          |
| 2015 | AISSCE, CBSE                  | GDSB, Mathura                         | 96.4%          |
| 2013 | ICSE                          | Sacred Heart Convent School           | 92.4%          |

## SCHOLASTIC ACHIEVEMENTS

- **Summer Undergraduate Research Award:** Conferred by Industrial Research and Development Unit, IIT Delhi (2016)
- **Minor Degree in Business Management:** Completed 12/20 credits; pursuing courses in **Marketing** and **Finance** (2018)
- **Publication:** Effect of high tempo music in a Themed Restaurant-Bar; published in IJAMR, a peer-reviewed journal (2018)
- **AISSCE, Certificate of Excellence:** Awarded for outstanding performance by **obtaining 100/100 marks** in Chemistry (2015)
- **UPSEE:** Secured an **All India rank of 78** in U.P State Entrance Examination among all the aspiring candidates (2015)

## INTERNSHIPS

- **Wipro Limited, Greater Noida** (May, 2018 - July, 2018) : *User Access Management (UAM) through Machine Learning Automated the UAM system* serving client requests for User Provisioning (User Password Reset, Create User, etc)
  - Trained an ML model for classifying client requests using **Decision Tree Classifier**; achieved **98.33% accurate results**
  - Developed **Powershell Scripts** for serving the classified requests and implementing changes in the **Active Directory**
  - Created a **Log File**, keeping track of the actions being taken on client requests and serving need for **Error Handling**

## PROJECTS

- **Physiotherapeutic Gaming Glove (Prof. Deepti Gupta)** (May, 2017 - July, 2017): *Developed a device serving medical necessity*
  - Designed and fabricated a washable **gaming glove** to improve motor coordination in kids suffering from cerebral palsy
  - Devised a way to **detect the hand gestures**, producing signals for the game; consulted physicians for hand exercises
  - Recognized and developed a game in **Arduino Processing** capable of being **controlled through the hand movements**
  - Only project from department to receive SURA award; Sponsored by Industrial Research and Development Unit, IIT Delhi*
- **Rendering and development of grippers (Prof. S. K. Saha)** (May, 2016 - July, 2016): *Summer Project, Robotics Club*
  - Designed and tested two grippers to hold cylindrical objects; Manufactured an **involute gear** for the **angular gripper**
  - Conceptualized the use of revolute joints for the **parallel gripper**; capable of lifting maximum payload of about 10kg
- **Analysis of Industry Sales (Prof. Amlendu Dubey)** (April, 2018 - May, 2018) : *Course Project on Econometric Methods*
  - Plotted **Regression Model** for the data collected from the paper industry; **predicted sales** for the upcoming years in R
- **Developing a Pagerank for implementing Search Engine (Prof. S. Kaushik)** (Jan, 2018 - May, 2018): *Course Project*
  - Implemented a **Sparse Matrix** maintaining information about connectivity of webpages using **Circular Multi-Linked List**
- **Market Data Publisher(MDP) (Prof. S. Kaushik)** (Jan, 2018 - May, 2018): *Course Project, Data Structures and Algorithms*
  - Developed MDP to help in making quick trading decisions, broadcasts price data for various symbols, using **AVL tree**

## EXTRA CURRICULAR ACTIVITIES

- **Robotics Club, IIT Delhi:** *Core Member of IITD Mechanical Team for ABU Robocon, India's largest robotics contest ABU Robocon 2017 | Guide: Dr. S. K. Saha and Dr. Kolin Paul* (Aug, 2016 - March, 2017)
  - Designed a **semi-autonomous robot** with unique wall following capabilities using a **single drive wheel mechanism**
  - Conceptualized and designed multiple throwing systems to **dispense soft frisbees** using a vertical wheel mechanism
  - Secured **10th position** among 112 teams, winning every single match; demonstrated in Open house 2017 at IIT Delhi
  - Collaboratively **developed a game-play strategy** based on the design for maximum efficiency during the competition
- **Manual Robotics:** *Represented IIT Delhi in Shaastra 2016, techfest of IIT Madras*, comprising in a team of 6 members
  - Designed and manufactured two manually controlled robots with **differential drive** to load tennis balls and shoot into the hoops
  - Developed a jar holding gripper mechanism with height adjustment capabilities **using rack and pinion mechanism**
- **Gained experience** of various design and analytical tools, **simulations using CAD** and working in teams of varying size
- **District Open Yoga Championship 2011:** Secured **3rd position** among 90+ students from Mathura district in U-16 category

## TECHNICAL SKILLS

- **Programming Languages:** C, C++, Java, Python, Powershell Scripts
- **Softwares:** Autodesk Inventor, Solidworks, MS Excel, Windows Powershell, Arduino Processing, Matlab, Android Studio

## POSITIONS OF RESPONSIBILITY

- **Mentor, Student Mentorship Programme** (July, 2017 - May, 2018) :
  - **Illuminated 5 freshers** through guidance, interaction and sharing experience ensuring a smooth transition in IIT Delhi
  - **Assisted coordinators** in smooth functioning of Academics, Counselling and Mentorship sessions for Orientation 2017



# AMIT DOODHWAL



## ACADEMIC DETAILS

| Year | Degree / Board                        | Institute  | GPA / Marks(%)  |
|------|---------------------------------------|--|-----------------|
| ---  | B.Tech in Textile Engineering<br>RBSE | Indian Institute of Technology, Delhi<br>AASTHA ACADEMY SR SEC SCH,<br>NAWALGARH ROAD, SIKAR | 7.697<br>86.60% |
| 2014 | RBSE                                  | SHRIKRISHNA SR SEC SCH,<br>BYPASS ROAD, KAVANT(SIKAR)  | 86.67%          |
| 2012 |                                       |  |                 |

## INTERNSHIPS

- **LINENWALAS, Jaipur** (May 2018 - July 2018) : *Search Engine Optimisation (Digital Marketing)*

- Establish ERP and CRM system by using VBA coding: To manage the resources of the company
- Organised offline sales event: Invitations through different marketing strategies
- Assisted management department to automate various tasks in Zoho and ERPNext
- Researched similar e-commerce-based start-ups to use them as a reference for the development of linenwalas.com
- Developed strategy for targeting potential customer demands by mapping their online website data with our databases
- Actively monitored the company operations, made varieties of recommendations for improving efficiency and services
- Performed On Page and Off Page Search Engine Optimisation
- Worked on Search Appearance and Google Search Console

## COURSES DONE

Engineering Mechanics, Engg. Visualization & Comm., Linear Algebra & Diffe. Equa., Intro. To Computer Science, Intro. To Electrical Engg., Calculus, Intr.to Material Sc. & Engg., Experimental Methods, Mechanics Of Solids And Fluids, Numerical Methods In Chemical, Data Structures And Algorithms, Minor Design Project - I, Design Of Exper. & Stat. Tech.

## SCHOLASTIC ACHIEVEMENTS

- **Rajiv Gandhi Vidyarthi Digital Yojna:** Amongst 10k meritorious students from Rajasthan Board to receive laptop

## PROJECTS

- **Detection of Nitro-Benzene(concentration in ppm) using CV test (Md. S. Wazed Ali)** (May, 2017 - May, 2018) :

- Performed CV test to detect heavy metal ions in waste water using different concentrations of NB and 17 other ions.
- Improved electrode's conductivity using nano particles by performing Zr-MSM nano-particle synthesization

### Course Projects

- **Search Engine (Prof. Saroj Kaushik)** (Jan, 2018 - Feb, 2018) : **Data Structures**
  - Built data structure underlying Search Engines by creating a simple inverted index for search queries on webpages
  - Used a hashing function efficient in arranging pages in proper priority for search queries using PageRank algorithm
- **Road Network Development Planning (Prof. Saroj Kaushik)** (March, 2018 - April, 2018) : **Data Structures**
  - Identified prime junctions to develop optimized road network planning by implementing Kruskal's algorithm in graphs.
  - Implemented Dijkstra's algorithm for finding the quickest way to travel between two locations considering traffic delay.
- **Market Data Publisher Building (Prof. Saroj Kaushik)** (March, 2018 - March, 2018) : **Data Structures**
  - Built a market data publisher to broadcast changes in stock prices as per MDP rules by implementing AVL tree.
- **Six Leg Kinematic Moving Machine (Prof. SUNIL JHA)** (August, 2015 - Oct, 2015) : **Eng. Visualization**
  - The mountain roads or other difficult locations where ordinary vehicles cannot be moved, can be easily replaced by six legged mechanical spider. Used chains instead of belts to make machine capable of carrying heavy load.

## TECHNICAL SKILLS

- **Programming Languages:** C,C++,PYTHON,JAVA
- **Softwares:** MATLAB, AUTODESK

## EXTRA CURRICULAR ACTIVITIES

- **Hostel Volleyball Team Member:** Integral part of the hostel volleyball team for two years(2015-2017)
- **Activity Head,** Hospitality in Tryst'17 (Annual technical festival), IIT Delhi.

## POSITIONS OF RESPONSIBILITY

- **Language Mentor, SMP** (April, 2017 - April, 2018) : Guided first year Hindi medium students in their courses.



# ANAND YADAV

## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Textile Engineering | Indian Institute of Technology, Delhi | 7.217          |
| 2015 | CBSE                          | MODERN SCHOOL                         | 84%            |
| 2013 | CBSE                          | SANT NIRANKARI PUBLIC SCHOOL          | 8.8            |

## COURSES DONE

Engineering Mechanics, Linear Algebra & Diffe. Equa., Profe. Ethics & Social Resp., Introduction To Engineering, Language & Writing Skill, Intro. To Computer Science, Intro. To Electrical Engg., Calculus, Profe. Ethics & Social Resp.-2, Language & Writing Skill-2, Experimental Methods, Environmental Science, Minor Design Project - I, NSS, Textile Fibres, Polymer Chemistry, Introduction To Textile Tech., Mechanics Of Solids And Fluids, Intro. To Biology For Engineer, Structure & Physical Propertie, Yarn Manufacture I, Fabric Manufacture I, Tech. Of Text. Preparation & F, Yarn Manufacture Laboratory, Fabric Manufacture Lab. - I, Tech. Of Tex. Pre. & Fin. Lab., Numerical Methods In Chemical, Modern Indian Fiction In Translation, Yarn Manufacture II, Fabric Manufacture II, Tech Of Textile Coloration Lab, Introduction To Economics, Organization And People Management, Minor Design Project - II

## INTERNSHIPS

- **Linenwalas, Jaipur** ( May, 2018- June, 2018) : *Digital Marketing*

- Assisted management department to automate various tasks in zoho and erpnext
- Monitored the company operations and made a varietyof recommendations for improving efficiency and services of the company
- From the customer reviews found where the company is lacking and worked to improvise it
- Designed ERP nad CRM system using Excel VBA: for the better resource planning.
- Analysed similar e-commerce platforms to identify more strategies for the growth of Linenwas
- Managed digital marketing on different portals like Flipkart, amazon
- Successfully moved new launches and non-moving inventories and there was a huge increase in the traffic after all the strategies the inventory of 2000 was almost clear in 2 months.
- ON page SEO: to increase traffic organically
- Ad Campaign optimization to reduce the Ad spend and increase the traffic
- Listing optimization(Keyword Research): to increase traffic,click through rate, conversion rate
- Organised offline sales event as an invitation in charge: Invitation were done through different marketing strategies

- **Vision India Foundation, Delhi** (November, 2015 - December, 2015) : *Offline Marketing*

- Promotion of samvaad Delhi app
- Met counsellors of different areas in Delhi to convince to promote and use the app
- Promoted app to people in that area

- **Indian Road Safety Campaign, Jaipur** (December, 2017 - January, 2018) : *Surveys for Helmet Research*

## PROJECTS

- **Triboelectric nanogenerator (Prof. Bipin Kumar)(ongoing project)** (JULY, 2018 - OCTOBER, 2018) :

- Designed a TENG fabric for energy harvesting

- **Mechanical Manufacturing Project (Prof. Sunil Jha)** (JULY, 2015 - OCTOBER, 2015) :

- Designed a hydraulic arm to lift weights upto 100 gram

## TECHNICAL SKILLS

- **Programming Languages:** C, C++, HTML

- **Software:** Autodesk, Microsoft Excel

## EXTRA CURRICULAR ACTIVITIES

- **Aeromodelling club IIT Delhi**(July, 2016-Febrary, 2017)

- Represented IIT Delhi in BOEING-IIT national aeromodelling competition in IITB in 2016 and in Skylark competition for Quadcopter in Techfest, IITB 2016

- **Arohan Teaching Project**(January, 2016-April, 2016): taught physics to the students preparing for JEE Advanced

## POSITIONS OF RESPONSIBILITY

- **Flying Executive, Aeromodelling Club** (JULY, 2016 - FEBRAURY, 2017-) :

- Designed and built Quadcopter which uses KK board as a flight controller.
- Designed and fabricated a Flat winged RC plane to practice Piloting



# ANMOL KUMAR

## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Textile Engineering | Indian Institute of Technology, Delhi | 5.385          |
| 2014 | B.S.E.B                       | Hadi hashmi high school gaya          | 65.6           |
| 2012 | B.S.E.B                       | T-model high school gaya              | 72.4           |

## COURSES DONE

Marketing Management, Advertising And Sales Promotion Management

## INTERNSHIPS

- **Trident Group, Barnala** (May 2018 - July 2018): Ring Frame Breakage Reduction
  - Reduced ring frame breakage from 4.13 to 2.75 for 100 spindles per hour in the yarn manufacturing plant
  - Quality of yarn improved substantially and production of yarn units increased; Achieved target within the time limit
- **GoodEd Technologies, New Delhi :** (15 May, -15 July, 2017)
  - Worked on Digital Marketing and Project Management with team
- **Manas Eduvision Pvt.Ltd, Gaya** (5 Dec 2016 - 28 Dec 2016): Promotional video making
  - Worked with Manas Eduvision Pvt.Ltd in content writing, video making and Editing with team as Team leader.

## PROJECTS

- **New Experimental setup** (Guided by Prof. Srinivas V. Veeravalli) (Sep, 2016 - Nov, 2016)
  - Made experimental setup to measure **strain on fabric specimen** loaded in tension and obtain the stress strain plot for the specimen.
- **Optimal design of Nonwoven Air filter** (Guided by prof. Dipayan Das) (May 2017-July 2017)
  - Made needle punched nonwoven filter media prepared using polyester fibres of 3 different cross-section(circular,trilobal,deep groove)
  - Evaluated **filtration efficiency** and pressure drop, achieved maximum filtration efficiency of and minimum pressure drop

## POSITIONS OF RESPONSIBILITY

- **Deputy General Secretary**, Textile Engineering Society: (July, 2017- Apr, 2018)
  - Led 2 tier team comprised of 4 secretaries, 7 executives, and treasurer to conduct 4 departmental events across year.
  - Managed annual budget & bill payments, administered logistics for events and led treasurer of team to collect funds.
  - Overall Coordinator for department fest "Antarang'18"; Oversaw paper presentation, poster presentation, quiz, debating event.
- **Publicity and marketing secretary**, Textile engineering society IIT DELHI: (July 2016 – Aug 2017)
  - Led a team of 7+ executives to effectively conduct and co-ordinates activities among students throughout the year.
  - Co-ordinated with other team members for freshers' and farewell event; managing crowd of over 200 students.
  - Spearheaded and led the publicity of Textile department via social networking sites and dedicated channels.
- **Co-ordinator Spintex'17 –Events:** (Dec 2016- March 2017)
  - Led a team 6+ executives to conduct and co-ordinate activities among students throughout the academic year.
  - Spearheaded and led the institute level department fest "SPINTEX'17" overseeing participation from various colleges
- **Vice Captain** at Hostel, Hockey: (2016-17)
  - Trained the freshmen and maintained hostel inventory & safety Gadgets to ensure top level participation
- **Vice captain** at Hostel, Basketball: (2016-17)
  - led hostel as vice captain in successful inter hostel basketball campaign and win BSA **General championship** (2016)

## EXTRA CURRICULAR ACTIVITIES

- **Winner, Bronze medal**, Hockey Tournament at UDGHOSH 2017, IIT Kanpur(7 Goal **Highest scorer** amongst 128 players)
- **Winner, Gold medal**, Hockey Tournament at SPORTECH 2018, IIT Delhi; member of the 16 player institute contingent
- **Winner, Silver and Bronze medal**, Lead a team of 16 players at Inter Hostel Hockey Championship (2017 and 2016)
- **Cultural Activity : Dramatics :**
  - **Winner, 1st position**, BRCA Inter hostel street play competition, play " Kyonki Mai Anaath Hu" (2016)
  - **Runner-Up** inter-hostel mime competition "chor ki chor", Performed play in front of 400 audience (2016)
  - **2nd Runner-Up** inter-hostel stage play competition, Produced " Uljhan"; Performed play in front of 500 audience (2016)
  - Actor, Inter-hostel street play competition, IIT Delhi for production of "Ek Aakhri Koshish" (2015)
  - Director, Writer, Actor: Inter-hostel street play competition; Performed play in front of 500+ audience (2016)
  - Public performance in **MANTHAN**, the largest street theatre fest in India organised by SSCBS college, DU
  - Lead Actor in Movie Making competition with photography and Films club (2015-2016)
- **Volunteer, Vidya Teaching Project :** (Dec 2015-Dec 2016)
  - Taught students at Secondary level and Actively participated in preparing question and notes for teaching
- **Speaker, Movie screening:** Video presentation and speaker in front of Munirka's children and students of Vidya project



# ARSHDEEP SINGH GOINDI



## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Textile Engineering | Indian Institute of Technology, Delhi | 8.271          |
| 2015 | C.B.S.E.                      | S.G.G.S. Collegiate Public School     | 93%            |
| 2013 | C.B.S.E.                      | St. Anne's Convent School             | 10/10          |

## INTERNSHIPS

- **Ernst & Young LLP, Gurgaon** (May 2017 - July 2017): Assisted **Internal Audit** for a client in the agrochemical sector
  - Collaborated with a team of consultants and Article interns to conduct Advisory engagements for the allocated client.
  - Generated research documents for the 3 clients illustrating their products, market trends, customers, competition & fiscal narratives.
  - Market research and industry analysis highlighting key areas for the agrochemical, paint and oncology domain.
  - Received '**Letter of Recommendation**' from the Project Manager, research results being readily utilized by the client.
- **Elite Industries, Industrial Area, Mohali** (May 2018 - July 2018) :
  - Collaborated with the operations team under the Plant Head to devise an efficient layout for their upcoming plant.
  - **1.5% rise** in process efficiency by catering to the recommendations proposed by the **STF** analyzing the existing plant.
  - Facilitated the analysis of the production process of their upcoming plant by Industry Benchmarking of the automobile sector catering to the manufacturing of Innova of Toyota Motors, India to be supplied by DCM Engineering Productions.
  - Received '**Letter of Recommendation**' stating contribution to the plant layout planning from the Project Manager.
- **NGO Tammana, Chandigarh** (December 2017 - January 2018)
  - Co-coordinated sensitization campaigns to address the challenges of the down-trodden living in the city outskirts.
  - Facilitated an awareness drive on sanitation & personal hygiene to educate the population residing in the nearby slums.
  - Organized a tree plantation drive and ensure proper care to be catered to the saplings planted during the internship.
  - Aided the logistic challenges of the needy patients in a government hospital (**P.G.I.**) during the internship period

## SCHOLASTIC ACHIEVEMENTS

- **N.T.S.E. Scholar (2011)**: Acquired **1st rank** in UT Chandigarh amongst 1073 finalists across India qualifying the **two-tier** national scholarship examination receiving a scholarship amount worth INR **24000** per annum for my lifelong study tenure.
- **C.T.Y.P, Infosys (2013)**: Underwent a two week training module acing a nationwide aptitude test conducted by Infosys
- **Sir Isaac Newton Scholarship (2012)**: Won scholarship of INR **10,000**, the most prestigious recognition of the study circle
- **International Informatics Olympiad (2010)**: Secured **18th** state rank and **743rd All India rank** in the Olympiad
- **International Olympiad of Mathematics**: Secured **130th** OLYMPIAD Rank in the International Olympiad of Mathematics
- **Best Student (2013)**: Received the Best Student Award for Academics, the most prestigious recognition at the school level
- **Web Development**: Undertook training for two months on front and back-end designing under **Pic and Frame, India**.
- **FNSTSE (2011)**: Secured an **All-India rank of 42** in the National Science Talent Search Exam conducted by FIITJEE

## POSITIONS OF RESPONSIBILITY

- **Infrastructure Coordinator, Tryst IIT Delhi** (February 2018) :
  - Spearheaded a three tier team comprising of 15+ activity heads and 20+ volunteers to ensure smooth functioning of the festival.
  - Catered to infrastructural requirements, resource allocation & event scheduling for 70+ events spread across 4 days.
  - Coordinated with IIT Delhi security force to execute security procedures for managing 70+ events and 25+ workshops per day.
  - Optimized branding space and assisted marketing team in planning of 10 stalls for food vendors and sponsors.
- **Student Affairs Council Representative, Student Affairs Council, IIT Delhi** (April 2017 & March 2018)
  - Unanimously elected by **500 students** to represent the hostel at the apex policy making body of the institute
  - Participated in meetings with the senate of IIT Delhi to renew existing and form new policies for the institute
  - Initiated the assimilation of 'No Dues' data format from departments to centralize & digitize receipt collection process

## EXTRA CURRICULAR ACTIVITIES

- **Street Play**:
  - **December 2017**: Associated with **Satvik Art Society** for a play production based on Munshi Premchand's "Lottery"
  - **December 2016**: Presented a Nukad Natak for sensitization towards the prevailing conditions of Indian water bodies
- **Marketing Executive, Entrepenuership Development Cell, IIT Delhi** (July 2016 & March 2017):
  - Assisted the Coordinator towards the completion of the deal with Utopia Mobiles (Signing of the M.O.M.).
  - Introduced multiple investors to & coaxed startups to participate in E-Summit, the flagship event by building a strong network from scratch.
- **Sportech 2017 & 2016, IIT Delhi**:
  - Liaised with teams of 10+ to ensure seamless availability of all the requisite resources for the Cricket/Lawn Tennis tournament at the 2017/2016 Sportech.
  - Administered&coordinated with 7 teams for their schedule, resource allocation and accommodation at Sportech 2016 as Infrastructure Activity Head.
- **English Declamation**: Secured positions in the English Declamation Competitions conducted at the Intra-School level in 2008-09 & 2006-07



# ATHARVA CHANDRA SINGH



## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Textile Engineering | Indian Institute of Technology, Delhi | 7.097          |
| 2015 | CBSE/AISSE                    | Karan Public School, Meerut           | 94.8%          |
| 2013 | CBSE/AISSE                    | Dewan Public School, Meerut           | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- Public Policy, IIM Ahmedabad:** Among 60 participants selected nationwide for public policy & framework analysis (2016)
- HBS Marketing Case Studies:** Received Letter of Recommendation from **IIM Lucknow** for excellent case analysis (2017)
- International Publications:** Authored 2 research papers in the fields of finance & literature, IJRCM & IJPSAT (2018)
  - Singh A., 'Factors Affecting Movement of Indian Stock Market' & 'A Political and Social Analysis of Kazuo Ishiguro's Remains of the Day'
- SOF Olympiads:** AIR 129, 277 NCO ('06, '08); International Rank **206** NSO; International Rank **208** French Olympiad, IFLO (2013)
- Equity Research Initiative:** Valuated financial health of *Harley Davidson* in course offered by **Mentored Research** (2017)
- Consilium'18:** Awarded **First** position & merit certificate in NSIT Business Conclave for excellent entrepreneurship skills (2018)

## INTERNSHIPS

- In2IT Technologies, IT Consulting** (May, 2018 - July, 2018) : Liaisoned with South Africa branch to explore business opportunities
  - Optimised category wise **pricing strategies** by devising a scalable model using **risk management methods**
  - Assessed **10+** investment opportunities on 4 internet sectors using financial ratios, potential savings over **20%** for the client
  - Facilitated firm's portfolio expansion into **2 new sectors** by conducting investment analysis & market mapping*Received Letter of Recommendation from Director of the division & got recommendations incorporated in final client report*
- Deloitte, Strategy & Operations** (May, 2017 - July, 2017) : Devised Market entry strategy for a leading pharmaceutical firm
  - Single handedly involved in **market mapping** of the Indian Pharma Packaging Industry & profiled key players of the industry
  - Conducted SWOT analysis of key players in the market & explored possible **investment options** for international companies*Appreciated by Director for contributing positively to all work assigned & improving project performance for the firm*

## EXTRA CURRICULAR ACTIVITIES

- Debating:** Achieved **10+** podium finishes in various events at national & inter-collegiate level across **5+** formats
  - Winner, Best Team, 'Controversus' Freshers Extempore Debate competition, Daulat Ram College (2015)
  - Winner, Best Adjudicator Intra IIT Parliamentary Debate; Finalist, British Parliamentary Inter Hostel Debate (2017)
  - Chief Adjudicator, Gladiator, Parliamentary Debate; 3rd Best Adjudicator, Intra IIT Parliamentary Debate (2018)
  - Chief Adjudicator, BRCA Vacanza, Open ended debate competition; Runner Up Intra IIT Parliamentary Debate (2017)
- Quizzing:** Awarded 'Significant Contribution to Cultural Activities' for exemplary achievements in Quizzing
  - Second, Inter IIT Cultural Meet, Teams from more than 20 IITs ;Third, Nihilanth, an inter IIT-IIM Competition (2017)
  - League Captain: One of the **6** students selected to captain a League Team; Third, Inter Hostel Freshers Quiz (2016)
  - Winner, India League Quiz (2016); Quiz Master, ExQuizIt Quiz inviting participation from all over the institute (2016)
  - Quiz Master, Mastermind, The biggest Intra IIT Quizzing event involving people from all over the institute (2017)
  - Quiz Master, Variety Quiz, One of the most coveted league quizzes (2017); Third, Secretariat Quiz (2017)
- Social Initiatives & Content Writing:** Conferred **Best Mentor award** amongst 200+ Mentors by *Student mentorship programme* (2018)
  - Worked with *Indus Action*, a **Harvard** alumni initiative by working on educational awareness programmes in Delhi slums (2017)
  - Conceptualised **2 Newsletters** and **3 Magazines** working as a **Journalist in BSP**, the institute student publications (2017)
  - Pioneered new initiatives like 'KnowYourStar' series as the **Publicity & Content Executive, BSA** to increase the sports outreach (2018)*Received Letter of Recommendation & got promoted to custom studio team from PP team, Qrius for excelling in work assignments (2017)*

## POSITIONS OF RESPONSIBILITY

- Events Coordinator, Rendezvous IIT Delhi** (April, 2018 - Present) : Led a 3 tier team of 200+ to organize events for 80k+
  - Revamped the **first Pronite** for audience of **10000+** to increase influx of crowd by **20%** & optimised budget resources
  - Signed MoUs with 30+** artists, agencies and judges & collaborated with high profile artists to increase the net outreach of the fest
  - Pioneered initiatives like Board Games Festival, Slumber Movie event etc to **optimise cash outflow** and invite maximum footfall
- Overall Coordinator, Sportech IIT Delhi** (December, 2017 - March, 2018) : Solely responsible for publicity of the fest
  - Spearheaded a **4-tier team of 35+** & managed on-ground, online publicity and catered to requirements of **50+ events** and sports
  - Initiated the **first ever campus ambassador** program for Sportech, expanding the outreach of the fest manifold outside IIT Delhi
  - Led coverage of **300+** league matches by 180+ colleges across **17 championships** & achieved **2 fold increment** in net outreach (YoY)
- Events Coordinator, Literati** (July, 2017 - December, 2017) : Led a 2-tier team of 40+ to get student participation from 30+ colleges
  - Engaged a **1000+** audience by successful execution of comedy night & collaboration with Alumni Association, IIT Delhi
  - Independently curated all sectors like publicity, logistics for seamless execution of **5 events**, active participation of **600+ students**



# AYUSH AGRAWAL



## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Textile Engineering | Indian Institute of Technology, Delhi | 7.707          |
| 2015 | AISSCE, CBSE                  | S.T Dominics, Mathura                 | 93.2           |
| 2013 | AISSE, CBSE                   | S.T Dominics, Mathura                 | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- Completed **15 credits** out of a minimum 20 credits required to be eligible for a minor in **Economics** by **Department of Humanities**
- Awarded **Certificate of Merit** by Central Board of Secondary Education for scoring perfect **10 CGPA** in AISSE,2013
- Qualified **National Level Kishor Vaigyanik Protsahan Yojana(KVPY)**,2014-15 for an interview by a panel of eminent scientists
- Awarded certificate of accomplishment by Coursera in **Trading Basics**, ISB & completed Java for Android, Vanderbilt University

## INTERNSHIPS

- Toppr, Growth Strategy** (June 2017 - July 2017): **Data Analyst** at India's fastest growing ed-tech startup
  - Potential savings of **25+ man hours** per new employee through simplified representation of firm's database of **150+** tables
  - 10% increase in conversion rate** on sample of 1000 leads through development of new E-mail **Marketing Channel**
  - Enabled **Investors** to track firm's performance by creating interactive Dashboard with **50+** performance indicators
- Agrowave, Core Team** (May 2018 - July 2018): **Data Analyst** at an early stage agri-tech startup
  - Potential savings of **200+ man hours/year** by setting up a standardized and user-friendly **Procurement Reporting System**
  - Established an automated **Financial Accounting System** by linking five registers by writing Macros to increase efficiency
  - Pitched **50+** potential corporate clients and achieved conversion(**Cold to Hot**) rate of **10%** via **Digital Marketing**
  - Designed & implemented strategies for **product pricing, market-entry & referral promotion** for rapid revenue growth
  - Received **Letter of Recommendation, Certificate of Appreciation from CEO & Founder** for **outstanding contribution** to firm

## PROJECTS

- AnalyzeThis 2017 (American Express)** (Aug, 2017 - Sept, 2017) : National Level Competition in Data Analytics
  - Predicted the **class of credit card** a potential customer will opt using different demographic, expenditure & credit parameters
  - Implemented multi variable linear regression in python with input parameters designed to eliminate multi co-linearity
- Samsung Edge 2017 (Samsung)** (Sept, 2017- Oct, 2017) : National Level Case Study Competition
  - Designed marketing strategy to establish Samsung as **Ultra Premium TV brand in India** using competitive benchmarking
- Image Morphing (Prof. P.R Panda)**(Apr , 2016) : Course Project, Intro to Computer Science
  - Created C++ module to transform source image to destination image through multiple intermediary images using 'opencv2' library
- Pagerank for Search Engine (Prof. Saroj Kaushik)** (Feb, 2018) : Course Project, Data Structures & Algorithms
  - Stored & modified the **Pagerank** of 1M web-pages in O(n) memory complexity by implementing Doubly, Circular Linked List
- Sleep-Screen-Stress Relation (Prof. Varsha Singh)** (Feb, 2018 - Apr, 2018) : Course Project, Intro to Psychology
  - Designed & tested **hypothesis** on relationship between Stress, Screen Hrs on Sleep duration on a sample of 100 students
- Basic Seismometer (Prof. S.V Veeravalli)** (Nov , 2016 - Dec , 2016) : Course Project, Experimental Methods
  - Designed & manufactured a physical working model **basic seismometer** with **high frequency data acquisition** system
- Flame Resistant Fabric (Prof. Wazed Ali)** (Dec, 2017 - Present) : Minor Design Project, Textile Technology
  - Synthesized low-cost Cerium Oxide nano-particles by double displacement reaction in dispersed phase for economical treatment
  - Obtained **200% stronger** char using Cerium Oxide nano-particles with an add on of a mere 3% on a pure cotton fabric

## TECHNICAL SKILLS

- Languages & Software** : Java, C++, Python, JavaScript, MySQL, Matlab, Android Studio, AutoDesk Inventor, Microsoft Excel
- Relevant Courses** : Data Structures & Algorithms, Micro Economics, Macro Economics, Linear Algebra & Differential Eqs

## EXTRA CURRICULAR ACTIVITIES

- Sports:** Participated in various sporting events spanning State, Zonal, College Levels
  - Winner, Gold Medal at the **Inter-Hostel Football Championship 2015-16**.
  - Among 4 selected to represent district at **State Level Badminton Tournament, 2008**.
  - Represented school at the **Zonal Football Championship, 2013** as a **Goal Keeper**.
- Social Endeavours:** Worked with multiple social organisations and initiatives over a period of 3 years
  - Run For Laadli** : Co-ordinated disbursement of refreshments to participants of the marathon against female sexual harassment
  - Guruji Seva Trust**: Tutored General Science, Mathematics & English to underprivileged children of Dakshinpuri, Delhi
- Robotics** : Led a team of 6 people to represent IIT Delhi in Shaastra(Annual Techfest of IIT Madras)
  - Designed & manufactured 2 manual bots capable of shooting tennis balls obtained by uncapping and unloading jars
- Other Interests** : Android App development, Finance & Economics, Entrepreneurship, Trading Equities, Indian politics



# DAKSH CHANDRA BANSAL



## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Textile Engineering | Indian Institute of Technology, Delhi | 7.27           |
| 2015 | C.B.S.E.                      | RN Podar                              | 89.4           |
| 2013 | I.C.S.E.                      | Hiranandani Foundation School         | 92.5           |

## SCHOLASTIC ACHIEVEMENTS

- Publications:** Authored 2 papers in Marketing as the 1st author (2018)
  - Bansal D.C. et al, 'Effects of Indian Culture on Consumers and Companies', accepted for publication by IJSR, IF 7.296
  - Bansal D.C. et al, 'OTT Market and Netflix in the Indian Subcontinent', accepted for publication by IJSR, IF 7.296
- Dr. Gokul Thakkar Trophy:** Received the prestigious award for excellence in computer science in IXth and Xth Grade (2013)
- Subject Prize for Computer Science:** Awarded for scoring the highest marks in the batch in computer science (2013)

## INTERNSHIPS

- Kantar IMRB, Mumbai** (May, 2018 - July, 2018) : Brands and Regional Culture
  - Worked with Kantar Advisory Team in fore-sighting of trends to advise businesses for creating products and offerings
  - Performed trend analysis on customer behaviours and habits through primary research amongst retailers pan Mumbai
  - Analyzed consumer focus group discussion and interviews in-depth to study the cultural impact on product offerings
  - Analysed time dependency of buying decisions w.r.t. the effects of globalisation and the rapid cultural paradigm shift
  - Established contingency factors for customer buying decisions through a study of cultural practices across geographies
- #ARM Worldwide, Gurgaon** (May, 2017 - July, 2017) : Digital Marketing for SMBs
  - Studied the relevance of digital marketing to SMBs, its different aspects and their importance in brand building
  - Authored targeted engaging content to target SMB client's customer base as a part of the Content Marketing and PR team
  - Authored articles for ARM Worldwide's promotional campaign to onboard SMBs to leverage digital marketing services

## POSITIONS OF RESPONSIBILITY

- Contingent Leader, IIT Delhi, Inter IIT Cultural Meet 2017** (December 2017) :
  - Led the 1st ever contingent of 180+ IITD students to a victory of the General Championship at the Cultural Meet
  - Structured the 1st ever framework for participant selection process; managing the expenses and TFA for participants
  - Led the PFC contingent at the Inter-IIT Cultural Meet '17 to 2 podium finishes and an overall 2nd among 16 participating IITs
- Secretary, Photography and Films Club , BRCA** (April 2017- March 2018):
  - Elected to lead a team of 15 to conduct competitive & non-competitive events at institute, inter-college & national level
  - Founded Timeline Films, the enthusiast society of the club, to represent IIT at competitions with high working budget
  - Engaged Professional Film-Makers onboard for workshops and events in Rendezvous'17 attracting a large participation
  - Pioneered the visual media campaign, Weekend Getaways leading to a boost in the club's activities at the state level
  - Set up a working studio for PFC activities: optimised allotted budget to source Photography and Film-Making equipment
  - Partnered with other cultural societies of BRCA to organise collaborative events to promote PFC activities in college
- President, Timeline Films, PFC's Enthusiast Society** (July, 2018 - Present) :
  - Created the functioning framework for the year 2018-19; managed the member recruitment process for 20 enthusiasts
  - Initiated quality content creation for IITD community, representing the college at city and national level competitions
- Technical Editor, BSP** (April, 2016 - March, 2017) :
  - Managed multiple publications of the board and functioning of the website to engage the IITD community effectively
  - Awarded the 'Significant Contribution to BSP' for exemplary work, selected for the post of Chief Editor of Design

## EXTRA CURRICULAR ACTIVITIES

- Film-Making:** Directed, scripted and edited 9+ films leading to 9 podium finishes at the national and institute level  
National Level:
  - Winner, Photo Play, the Short Film-Making Competition, Sabrang'18, Deshbandhu College (2018)
  - Winner, The Challenge, Online Short Film Competition, Inter IIT Cultural Meet, IIT Kanpur (2017)
  - Winner, First Cut, the Short Film Competition, St. Francis College for Women, Hyderabad (2017)
  - Runner-Up, 48 Hour Short Film-Making Competition, Inter IIT Cultural Meet, IIT Kanpur (2017)
  - Runner-Up, Overall Media and Journalism Events, Inter IIT Cultural Meet, IIT Kanpur (2017)
  - 2nd Runner-Up, Photo Play, Short Film-Making Competition, EcoZest17, Deshbandhu College (2017)
- Institute Level: Managed the aftermovie crew and its production in Rendezvous'16
  - Winner, Quietus, Inter-Hostel Dance Video Making Competition (2018)
  - Winner, Zindagi, Inter-Hostel Music Video Making Competition (2016)
  - Winner, Sinaree, Inter-Hostel Short Film-Making Competition (2016)



# DEEPAK MANDLOI



## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Textile Engineering | Indian Institute of Technology, Delhi | 5.505          |
| 2015 | CBSE                          | Gurukul School Dhamnod                | 78.88          |
| 2013 | CBSE                          | Gurukul School Dhamnod                | 9              |

## COURSES DONE

Engineering Mechanics, Engg. Visualization & Comm., Product Realization By Manf., Intro. To Computer Science, Intro. To Electrical Engg., Language & Writing Skill-2, Intr.to Material Sc. & Engg., Experimental Methods, Environmental Science, Introduction To Sociology, Social Science Approaches To Development, Minor Design Project - I, Minor Design Project - II

## SCHOLASTIC ACHIEVEMENTS

- appeared in **Problem Solving Assessment** conducted by CBSE, Delhi in January 2014 and performed as follows:
  - scored **95.86 percentile** score in **qualitative reasoning** domain
  - scored **81.35 percentile** score in **quantitative reasoning** domain.

## PROJECTS

- **Modified sprinkler system for irrigation purposes (prof. Kavya Dashora)** (December 2017 - January 2018) :\*
  - **examined and analyzed** different agricultural technologies.
  - proposed a modified sprinkler system having moisture sensors to save water for irrigation purposes.
  - presented a report on review papers of different agricultural technologies showing their usefulness and analysis.
- **Development of Microcellular composite (Dr. Rajeev Shrivastav)** (July,2018 - present) :
  - currently developing Microcellular composite using High internal phase emulsion method.
- **Course Project**
- **PLGA/Mg based composite for fracture fixation (Dr. sourabh ghosh)** (jan, 2018 - may, 2018) :
  - examined currently available technological solution for the fracture fixation.
  - proposed an **optimized** version of the currently available solution for fracture fixation.
- **Image Morphing using C++ ( Prof. Preeti Ranjan Panda)**(Jan, 2016 - May, 2016) :
  - Developed a C++ code which prints n consecutive images between two images.
  - Implemented triangulation of feature points obtained by OpenCV and filled triangles with pixel values.

## INTERNSHIPS

- **Pravah, New Delhi** (may, 2016 - june, 2016) :Ms. Neeru Malhotra (Director)
  - placed with the organization 'Ektaparishad' and visited local villages near Gwalior ( Madhya Pradesh) to spread awareness among the 200+ farmers regarding their land rights.
  - meeting the govt. Officials to address the problems faced by farmers.
  - participated in a rally on "No Smoking day" to spread awareness

## TECHNICAL SKILLS

- **Programming Languages:** Basic C, C++, MATLAB, Python, HTML
- **Softwares:** Autodesk Inventor, Adobe Photoshop, SolidWorks

## EXTRA CURRICULAR ACTIVITIES

- **Activity Head , Infrastructure, Rendezvous 2017:**
  - Activity Head in Infrastructure Team in IIT Delhi's annual cultural fest-Rendezvous-2017
  - managed work related to infrastructure work and built connections with various clients for the procurement of electricity and otherinfrastructures.
- **Activity Head, Events, Tryst 2016**
  - Activity Head in Events Team in IIT Delhi's annual technical fest-Tryst-2017.
  - managed 10+ events with more than 50 participants in each event.
- **Volunteer,Food4thought organization** (March, 2016 - April, 2016)
  - organized reading sessions for children in Munirka (a suburb near IIT Delhi) to inculcate the habit of reading in them.



# DEEPA LI VERMA



## ACADEMIC DETAILS

| Year | Degree / Board                        | Institute  | GPA / Marks(%) |
|------|---------------------------------------|--|----------------|
| ---  | B.Tech in Textile Engineering<br>CBSE | Indian Institute of Technology, Delhi                            | 6.13           |
| 2014 |                                       | Kanwartara Public higher secondary school, Mandleshwar, Khargone | 79.6           |
| 2012 | CBSE                                  | Paramount Academy Kasrawad<br>District Khargone, MP              | 8.8            |

## COURSES DONE

Intro. To Electrical Engg., Introduction To Engineering, Language & Writing Skill, Engineering Mechanics, Engg. Visualization & Comm., Product Realization By Manf., Linear Algebra & Diffe. Equa., Language & Writing Skill-2, Intr.to Material Sc. & Engg., Experimental Methods, Introduction To Sociology, National Sports Organisation, Mechanics Of Solids And Fluids, Environmental Science, Social Science Approaches To Development, Fundamentals Of Language Sciences, Human Values And Technology

## INTERNSHIPS

- **Wearit Global Limited,Bheelaon(22nd May-10th July) in 2017:Project on-"Advantages of Compact Spinning on Pilling and Factors affecting hairiness of yarn**
  - I have learned about various processes and mechanisms of spinning machines which is used to manufacture the yarn and what are their key role in spinning.
  - I have done various experiments in SQC lab of company which is used for testing of fiber,yarn and raw material for quality purposes.
- **Arvind Limited,Santej,Gandhinagar(21st May-12th Jul) in 2018: Project on-Failure Analysis at yarn dyeing of shirting Department.**
  - I visited various departments such as Spinning, Weaving, Knitting, Printing, Processing,Yarn dyeing.
  - Data analysis of Drugline of Yardage,Deskloom and B.No to find out the reasons of failure/shade Variabtion of dyed yarn with respect to standard at yarn dyeing department.
  - Data analysis to find that under which FLM and in which shift the maximum failure occured.
  - I have gone through various machines such as bulk and yardage machines as well as lab machines.

## PROJECTS

- **Antimicrobial finish of textiles using plant extract(Bhupendra Butola)**(Aug,2018-Present,2018)
  - Experimenting the silver nano-particle on cotton fabrics for antimicrobial finishing
  - Experimenting on different plant extracts which can reduce silver to silver nanoparticle.
- **Under course Introduction to Engineering**
  - Designed a key chain containing letters D and V with the help of 3D printer.
  - Designed a working prototype of a plane made by hard wood ,paper and powered by propellers via rubber band
- **Designed a Pinball Machine**(March,2016-April,2016)
  - Made it with the help of various manufacturing processes like blacksmith, carpentry, welding, sheet metal, moulding, etc
  - We used LED bulbs which glows with the help of two parallel plate capacitor

## TECHNICAL SKILLS

- **MS Office, MS Word, AutoCaD, Photoshop**

## EXTRA CURRICULAR ACTIVITIES

- **Inter Hostel Table Tennis :-**
  - Played Inter-Hostel Table-Tennis for 2 consecutive years(2016-2017) and participated in regular training
- **Inter Hostel Athletics**
  - Participated in Inter Hostel Athletics in year 2016
- **Inter Hostel Carrom**
  - Played Inter Hostel Carrom in year 2016 and won first Price with 26-0 score
- **Inter Hostel Lawn Tennis**
  - Played Inter Lawn Tennis in year 2017
- **Litrati 2016**
  - Participated in Litrati Events and Worked as Activity Head in Publicity under Coordinator Ayush Varshney
- **Open House 2017**
  - Worked as a volunteer in Awards and Inauguration and Volunteered alumni to see posters for awards.



# DEEPANSHU GUPTA



## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Textile Engineering | Indian Institute of Technology, Delhi | 6.667          |
| 2015 | CBSE(AIISCE)                  | Blossoms Senior Secondary School      | 92.6           |
| 2013 | ICSE(CISCE)                   | The British Co-Ed High School         | 91.34          |

## SCHOLASTIC ACHIEVEMENTS

- International Publications:** Authored two research papers across Marketing Management & Data Analytics
  - Gupta D. et al- 'Time Series Analysis of Shampoo Sales', *Intl. Journal for Science & Research, Impact Factor-7.294* ('18)
  - Gupta D. et al- 'Linear Regression Analysis of Environmental Effects on speed of Sound', *IJSR, Impact Factor-7.296* ('18)
- MOOC:** Completed **Financial Accounting** by Prof. Oktay Urcan, University of Illinois at Urbana-Champaign ('18)
- 6σ Certification:** Awarded by Aveta Business Institute & SSC for displaying curriculum proficiency; scored **94%** ('18)
- Problem Solving Assessment:** Scored **99.70 & 93.83 percentile** in Quantitative Reasoning & Language Conventions ('14)
- International Award for Young People(IAYP):** Bronze Standard for providing Social Services in rural areas & slums ('13)

## INTERNSHIPS

- Sharekhan by BNP Paribas, Mumbai** (May, 2018 - July, 2018) : *Website & Mobile App Search Product Management*
  - Strategized & built an extensive **code readable sitemap**; enables users to surf through the website pages via search
  - Documented exceptionable & relevant features in the **PRD**; with a **single click** user can carry out all the website activities
  - Analysed user needs through **market research**; **designed the Search UI** for better user experience & functionality
  - Documented the **PRD** of an 'Admin Portal'; **without any development aid** the future **search parameters** can be configured

Received 'Letter of Recommendation' from the Team Lead, Digital Startups, for commendable work accomplishments

## POSITIONS OF RESPONSIBILITY

- Content & Publicity Co-ordinator, Sportech** (October, 2017 - March, 2018) :
  - Led a **3-tier team of 30+ executives** to cater to the requirements of **50+ events**; managed on-ground & online publicity
  - Supervised the content & creative teams; provided extensive coverage of **300+ matches** across **17 championships** in 3 days
  - Initiated the Campus Ambassador Program; expanded the outreach to **180 participating colleges** for the fest
- Admin & Finance Cordinator, Delhi Poetry Festival** (October, 2017 - March, 2018) :
  - Managed **sponsors' finance** for efficient fund allocation to artists; worked with the collaborators for *appropriation of budget*
  - Coordinated with different departments like *Infrastructure, Events, Marketing & Prizes* for all the monetary transactions
- Publicity & Events Coordinator, Axalta Campaign, IIT Delhi** (March, 2018 - May, 2018):
  - Led **30+ executives** to manage & publicize the event, leading to participation of **200+ delegates** in a span of just 1 week
  - Introduced incentive based system to execute **pan-India CA** program for the joint venture between Axalta & Chemical department
  - Revamped the prize distribution system to manage logistics by coordinating with different teams to ensure smooth flow of event

## EXTRA CURRICULAR ACTIVITIES

- Dramatics & Film Making:** Director & Lead Actor in over **30 plays** & mimes sensitizing audience of over 3000  
**National level:** Orchestrated the venture of **Ankahi- The Theatre Society of IIT Delhi** over 3 years
  - **Winners** Overall, **Inter-IIT Cultural Meet**, Kanpur; **Runners Up**, Street Play Competition & Dramatics Trophy, Director ('17)
  - **Winners**, Rendezvous National Street Play Competition, **Lead Actor** & Vocalist- *The Uncounted 3.5 Crores, play on Orphans* ('16)
- Institute level:** Founded the Dramatics Society- 'Aghori' for Inter Hostel Competition
  - **Winners**, Inter Hostel Mime Competition, **Director**, Playwright & Lead Actor- *Jugalbandi*,comical on a foolish policeman ('16)
  - **Winners**, Inter Hostel Short Movie Making, handled **Logistics & Production**- Scenary, story on the ethics of poor lad ('16)
  - **Winners**, Inter Hostel Music Video Making, **Theme Setup**, Director & Playwright- *Zindagi*, story about college friendship ('16)
  - **Second Runners Up**, Inter Hostel Street Play, **Narrator** & Director- *Chakravyuh*, play on *India's unending Red Tapism* ('18)
  - **Second Runners Up**, Inter Hostel Street Play, **Playwright** & Lead Actor- *Tu Chal*, play on *empathy for differently abled* ('17)
  - **Second Runners Up**, Inter Hostel Street Play, **Lead Actor** & Vocalist- *Pinjra*, play on the *predicament of debt bondage* ('15)
- Avanti Fellows Delhi Chapter, Mentor:** (June 2016 - May 2017)
  - Administered one-to-one academic & motivational counseling to **3 JEE aspirants**; achieved excellent improvement in academics
  - Led a team of **20+ volunteers** for 'Avanti Outreach Program'; targeted **250+ schools** to address about the engineering opportunities
- Events Executive, Rendezvous'17:** Managed the production of Open Air Theatre (10k capacity) for the Star-Nights
  - Led a team of **15+ volunteers**; coordinated with hospitality & security to manage the logistics for *Zakir Khan & Salim-Suleiman*
  - Pitched **150+ academies** single-handedly; organized prelims in 4 cities & executed the finale for Natioanl level Band Competitions

Led the hostel to win two consecutive **BHM Night Trophies** ('17, '18) & contributed to the win of **BRCA Runners Up Trophy 2016**  
 Awarded **Outstanding Contribution to Cultural Activities**, for exemplary contribution & achievements in the Dramatics Club



# DEVANSH SHARMA



## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Textile Engineering | Indian Institute of Technology, Delhi | 7.067          |
| 2014 | CBSE                          | The Avadh School, Lucknow             | 85.6%          |
| 2012 | CBSE                          | Sacred Heart Convent School, Obra     | 10 CGPA        |

## COURSES DONE

Intro. To Computer Science, Calculus, Engg. Visualization & Comm., Product Realization By Manf., Linear Algebra & Diffe. Equa., Experimental Methods, Microeconomics, Selected Topics In Economics, Organization And People Management

## INTERNSHIPS

- **Silversparro Technologies Pvt. Ltd., Gurugram** (May 2018 - July 2018) : *Business Development Intern*
  - Streamlined **Company finances** using \*Quickbooks8, an accounting software and coordinated reimbursement procedure.
  - Worked in assembling **investments**, equity shares, debentures and approving newly implemented **SMF** from RBI for FDI.
  - Strategized **marketing research** of potential new clients in offline retail sectors worldwide and creating client portfolios.
  - Received 8 Letter of Recommendation\* for commendable work accomplishment; drafted report for company's assessment.*
- **Fitso Pvt Ltd, Gurugram** (December 2017 - January 2018) : *Event Management Member*
  - Part of a **6-member core team** which organized the **first** ever IIT Delhi Alumni Reunion Run Marathon in IITD Campus.
  - Marketed the event, pitched companies for **sponsorship**, designed **dedicated events** and effectively managed budget.
  - Publicised events, designed **creative postures** using Adobe Photoshop, gathered **500+** participants from all batches.

## POSITIONS OF RESPONSIBILITY

### Deputy General Secretary, Textile Engineering Society'17 (May, 2017 - May, 2018)

- **Spearheaded** a team of **10** to frame and conduct events related to Textile Research in department throughout the year.
- **Administered** various Departmental events, Freshers' welcome; **blueprinted** the **theme** and organized fest **Antarang'18**.

### Nucleus Coordinator, Training and Placement Cell (August, 2017 - May, 2018)

- **Nominated** solely among the textile batch of **100+** members to coordinate between placement cell and department students.
- **Solicited** core & non core **companies** for campus recruitment; **Enquired** the students and solved placement **issues**

### Mentor, Student Mentorship Programme (April, 2017 - April, 2018)

- **Guided** the first year **6 students** to ensure a smooth transition into IIT Delhi, ensuring the comfort of the incoming.
- **Assisted** the coordinators in the functioning of **sessions** on Academics, Counseling and Mentorship during Orientation

## PROJECTS

### Course Project: Organisational and People Management - Dr Suchi Sinha (March 2018 - May 2018)

- Imbibed **Kotter's** 8 step change **model** and **implemented** it on project, '**Strategic Human Resource Management**'.
- Researched about **reviewing system** of organisation after model has been implemented and proposed further strategy.

### Marketing Management- Dr Mahim Sagar (December 2018 - March 2018)

- **Conducted** marketing research on renowned case study 'Copperia', 'Winstock' **proposed** solution **report** on failure faced.
- **Explored** the **scenario** of the ongoing market and **proposed business model** and reforms on 'Food Truck of India'.

## EXTRA CURRICULAR ACTIVITIES

### Dramatics Actor and musician in over 20 plays at the national level and Institute level

#### National level Member of Ankahi, The Theatre Society of IIT Delhi (2016-2018)

- **Winners**, Actor and Musician, National level Street Play Competition (Mimansa), Rendezvous'16 -'Uncounted 3.5 Crore'.
- Supported in **Direction** of play on **Orphan's lives**, National level **Street Play** Competition (Mimansa), Rendezvous'17.

#### Institute level Actively participated in Acting and Direction of plays in all inter hostel drama events (2015-2017)

- **Winner, Actor, Musician** and supported in direction of Inter Hostel **Mime** Competition, IIT Delhi 2017 - 'Jugalbandi'.
- **2nd Runners Up, Actor and Musician**, Inter Hostel **Street Play** Competition 2017, IIT Delhi -'Tu Chal' (Play on disability).

## TECHNICAL SKILLS

**Languages:** C, C++, Java, LaTex **Software:** Autodesk, Solidworks, R-studio, Quickbooks, Adobe Photoshop, Microsoft Office



# DHAWAL PARMAR



## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Textile Engineering | Indian Institute of Technology, Delhi | 7.886          |
| 2014 | CBSE                          | J.N.V. Kalandri, Sirohi, Rajasthan    | 90.60 %        |
| 2012 | RBSE                          | Emmanuel Mission, Sirohi, Rajasthan   | 87.83 %        |

## INTERNSHIPS

- **Nissenken Quality Evaluation** (May, 2018 - July, 2018) *Nilesh Gudhka, Technical Manager*
  - Improved dye fastness by **more than 25%** by taking corrective measures, Graded fastness on the scale of **1 to 5**
  - Researched possible ways to decrease contraction & expansion **by 40-50%** after washing of garments at mfg. stage
  - Achieved **30% increase** in the physical properties of textile substrates by altering technical variables
  - Analysed conc. of harmful Azo content in the dye & checked whether they fall in permissible range (**0.0005-0.003 %**) or not

## PROJECTS

- **Time-series Forecasting of India GNP** (March 2018 - April 2018) *Dr Amlendu Kumar Dubey, Prof Management Studies*
  - Will be accomplishing **ARIMA Modelling** on India GNP data of Sixty years using the Box-Jenkins method in R-studio Software
  - Will be performing Q test, residual analysis & augmented Dickey-Fuller test and compared 3 models against each other
- **Accounting & Financial Management** (August, 2018 - Ongoing) *Dr. Shveta Singh, Prof Management Studies : Course Project*
  - Studying about income statement, balance sheet, cash flow statements, **Financial Ratios**, cost concepts and profit planning
  - Analysing a real-world **business case study** using financial tools & skills and proposed a possible solution for the same
- **Water Absorbent Non-woven Fabrics** (May, 2017 - September, 2017) *Dr Dipayan Das, Prof. Textile Tech. Department*
  - Achieved Absorbency Capacity(**40 g/g**)& Rate(**0.43 g/g.s**) by **Developing** fabrics using Cotton, DG PET & SAF fibres
  - Optimized Weight % (**33% each**) of individual fiber & **lattice design** of fabric to have above two **Properties Maximum**
- **Layout Designing** (April, 2018 - May, 2018) *Dr. S. M. Ishtiaque, Prof. Textile Tech. Department*
  - **Reduced 10%** space requirement by altering existing layout design ; Awarded **10/10 CGPA** in the particular course
  - Designed a *Process Oriented Layout* considering factors such as safety, cost minimization, minimum movement & flexibility
- **Statistical Analysis** (October, 2017 - November, 2017) *Dr. Amit Rawal, Prof. Textile Tech. Department*
  - Analysed case study problems with Statistical tools such as Z-test, ANOVA, Correlation & Regression on Minitab & MATLAB

## POSITIONS OF RESPONSIBILITY

- **Admin & Finance Coordinator, Delhi Poetry Festival (BRCA)** (December, 2017 - March, 2018) :
  - Managed funds & transactions of sponsors and artists; Allocated fund efficiently to other departments of organisation
  - Optimised flow of cash & maintained the balance sheet for centralized billing mechanism to have smooth functioning
- **Hospitality Coordinator, Sportech (BSA)** (November, 2017 - February, 2018) :
  - Conceptualized, planned & accomplished the 4-day Sports Festival as a part of multi-tier team of **30+ activity heads**
  - Liaised with the dealer for timely procurement of logistics & refreshments for over **50+ teams in 12 sports**
  - Arranged for on-campus accommodation & catering of **500+ participants**; implemented a **24x7 helpline facility**
- **Cultural Secretary, Textile Engineering Society (TES)** (July, 2017 - May, 2018) :
  - Led a team of executives with 4 other secretaries for organising various cultural activities throughout the year
  - Organized welcome of **100+ Freshers** to Textile Department; Executed Antarang'18 as a **Core Team Member**
- **Captain Squash Team, Shivalik Hostel (BSA)** (April, 2017 - May, 2018) :
  - Encouraged the participation of students in the game & Ensured transparent selections to Hostel Squash Team
  - Developed concentration, strong work ethics & perseverance in players; Proposed a budget to meet team goals
- **Mentor, Student Mentorship Program (BSW)** (April, 2017 - May, 2018) :
  - Assisted Coordinators in smooth functioning of exhibits, activities & sessions related to Academics, Counselling & Mentorship
  - Educated **4 mentees** about various resources available on campus to help their goals set and work towards achieving them
  - Served as a positive social and academic role model by supporting mentees with their involvement in campus activities

## EXTRA CURRICULAR ACTIVITIES

- **Dramatics Club (BRCA)** :
  - Selected as **Top-6** performing team in **Stage Play Man Ke Bhanwar** in **Rendezvous'16** - Actor & Member of production team
  - Received **Special Mention** from the judges for the best set decoration among **more than 30** professional stage plays
  - **Inter-college Mime Competition, Rendezvous'17**: Participated as the lead actor & contributed to the direction of play
  - **2nd runner up**, Inter Hostel Street Play Competition **2015, 2016 & 2018** among 13 teams - Acted & Directed
  - **1st runner-up & Winner**, Inter Hostel Mime competition **2016 & 2017** respectively among 13 teams - Acted & Directed
  - **1st runner-up**, Inter hostel Monoact Competition **2018** among **25 participants** - Acted & Scripted play **Sahil**
- **Award** : Contributed to win **BHM Winner Trophy** in **2017 & 2018**; Awarded for Contribution in **Hostel Maintenance Management**



# DHRUV GUPTA

## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Textile Engineering | Indian Institute of Technology, Delhi | 8.134          |
| 2015 | AISSCE (CBSE)                 | Delhi Public School, Gurgaon          | 96.5%          |
| 2013 | AISSE (CBSE)                  | Delhi Public School, Gurgaon          | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- **Intl. Publication:** Gupta D. et al 'Catalytic Reduction of NOx', International Journal of Scientific & Engineering Research (2018) - Gupta D. et al 'Freedom of Speech in Indian Context', International Journal of Advanced Multidisciplinary Research (2018)
- **Microsoft Competition: Finalist** in the All India Championship conducted by Microsoft India for professional skills (2012)
- **Chairpersons's Award for Academic Excellence:** Conferred for excellent academic performance in school DPS, Gurgaon (2014)
- **School Exchange:** Represented India in the one month **Indo - UK** cultural exchange program at Sir Bernard Lovell, Bristol (2013)
- **CBSE Merit Certificate, AISSE:** Awarded for outstanding performance and scoring perfect grades in all subjects (2013)
- **National Creativity Olympiad:** Secured **AIR 1** in the Competition based on Howard Gardner's *Theory of Intelligence* (2011)

## INTERNSHIPS

- **Capital One Private Limited, Bangalore** (May, 2018 - July, 2018): *Business Analytics*
  - Analysed 1.5 MM data points of over **50 factors** related to vehicle characteristics & market drivers to draw recommendations for client
  - Conducted extensive **market research** to identify loopholes in existing car pricing model; verified trends & their strategic implications
  - Developed car auction pricing model; **increased accuracy to 87%** by drafting interferences from daily inventory data
  - Derived novel factor, 'Relative Demand'; **improved accuracy of pricing model by 15%** by using it in synergy with existing model

Awarded 'Letter of Recommendation' by manager for excellent contribution to the projects & constant positive appraisals
- **Ernst & Young Private Limited, Gurgaon** (May, 2017 - July, 2017) : *Finance Department*
  - Evaluated the **Tax Credit** availed by the company on hotel bills to identify drawbacks of current company guidelines
  - Recommended changes in rules to reduce chances of double payment of tax, thereby **increasing the tax credit availed**
  - Examined the new **GST laws** to gather knowledge of changes in post-tax revenues by extrapolating previous contracts

## POSITIONS OF RESPONSIBILITY

- **Marketing Coordinator, Rendezvous, BRCA** (December, 2017 - Present):
 

Led a 3-tier team of 30 members to raise sponsorships, manage endorsements & artist tie-ups for BRCA & its patrons

  - Conceptualised the **first ever** edition of **Mini Comic Con** in Rendezvous to enhance crowd experience & increase crowd flow
  - Restructured Melange, performing arts pronite; potential **increase in crowd flow by 20%** by introducing 3 stage locations
  - Generated **highest ever** media plan (**12% increase** in valuation) with The Hindu, Cinepolis, New Delhi Times & 15 magazines
  - Ensured **optimum ROI** to the sponsors by strategic brand associations in coherence with their current marketing plan
- **Events Coordinator, Speranza, BSW** (April, 2017 - September, 2017):
  - Organised *Guftagoo - A talk with alumni* in the **finance & consulting** sector to generate awareness among students at IITD
  - Negotiated & organised Comedy night by Angad Singh Ranyal along with competitive event *Jeopardy* for 500+ freshmen
- **Representative, Student Affairs Council** (March, 2017 - March, 2018):
  - Designed the UG/PG section **review mechanism** to counter the increasing complaints, portal in the final stage
  - Digitised the **No-Dues process** for the administration; secured key softwares like Grammarly for the IITD community

Conferred 'Outstanding contribution to SAC' for outstanding work accomplishment in Student Affairs related activities
- **Publicity & Events Coordinator, Axalta Campaign, IIT Delhi** (March, 2018 - May, 2018):
  - Introduced incentive based system to execute **pan-India** CA program for the joint venture between Axalta & Chemical department
  - Revamped the prize distribution system to manage logistics by coordinating with different teams to ensure smooth flow of event

## EXTRA CURRICULAR ACTIVITIES

- **Dramatics, Photography & Films Clubs:** Podium finish in 6 Institute level events in three years (2015-2018)
  - **Winner**, Inter-hostel Dance Video Making Competition - *Queitus*; Scriptwriter and Cinematographer (2018)
  - **Winner**, Inter-hostel Mime Competition (2017); **2nd Runners Up**, Inter-hostel Street Play Competition (2017)
  - **Winner**, among 13 hostels in Inter-hostel Music Video Making Competition - *Zindagi*; Director and Scriptwriter (2016)
  - **Winner**, Inter-hostel Short Movie Making Competition; **2nd Runners Up**, Inter-hostel Street Play Competition (2015)

Actively involved in myriad of institute level events across several genres for 3 consecutive years on lines of direction
- **Case Study Competition:** Presented at various national business case development events
  - **Winner**, Battlefield, National Case Study Competition conducted by Techkriti, Indian Institute of Technology, Kanpur (2018)
- **Social Welfare Initiatives:** Conceptualised anti-ragging squad with sensitisation programs on ills of ragging at Institute level



# GUPTA HARSH SUNIL



## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Textile Engineering | Indian Institute of Technology, Delhi | 8.146          |
| 2015 | Maharashtra State Board       | Pace Junior Science College           | 90%            |
| 2013 | Maharashtra State Board       | St. Therese Convent School            | 94.55%         |

## INTERNSHIPS

- **Zinnov Management Consulting Pvt. Ltd., Bangalore** (May, 2018 - July, 2018) : Skilling for digital talent for industry body
  - Curated a database of AI and Big Data talent in **GICs and IT Services** to analyze their demands across global locations
  - Analyzed various roles that encompass AI and Big Data to develop skills required for successful performance in these roles
  - Mapped talent hotspots and trends across various global locations for AI and Big Data for a **large US based R&D center**
  - Single handedly **created behavioural competencies** required for an employee at different levels to follow at a workplace
- **Kotak Education Foundation, Mumbai** (June, 2017 - July, 2017) : working for educational needs of underprivileged children
  - Conducted, evaluated and analyzed **10+ literacy-numeracy tests** in SC Bose School, Mankhurd, containing **1000+ students**
  - Taught around 8 **12th standard students** Physics, Chemistry, Maths under the programme Kotak 'In Search of Excellence'
  - Awarded a **Letter of Recommendation** for exceptional performance and sincere dedication throughout the duration of internship

## PROJECTS

- **Country of origin effects on brand equity under Dr. Mahim Sagar** (Feb, 2018 - April, 2018) : Marketing Management
  - Analyzed the effect of country of origin on **brand equity** and valuation of product from consumers perspective worldwide
  - Analyzed different strategies used by companies to utilise or overcome country of origin effect to **maximize their profit**
- **Great Indian Poverty Debate under Prof. Jayan Jose Thomas** (September, 2016 - November, 2016) : Introduction to Economics
  - Analyzed the debate around **poverty level discrepancies** between Indian national accounts and surveys during 1990s
  - Reignited the poverty debate to apply it into the current scenario by comparing **absolute and relative poverty indices**
- **Study of effect of hysteresis on textile pressure sensors under Prof. Kushal Sen** (July, 2018 - Present) : BTech Project
  - Researched the existing technology and identified the shortcoming of **hysteresis** which makes the sensor reading unusable
  - Analyzing the change in hysteresis of the textile pressure sensors with change in sensor specifications to **increase efficiency**
- **Facility layout design under Prof S.M. Ishtiaque** (Feb, 2018 - April, 2018) : Production and Operations management
  - Considerably **reduced the space requirements** for the layout by altering and optimizing the existent facility layout design
  - **Designed a Process Oriented Layout** considering factors like safety, cost minimization, minimum movement & flexibility

## EXTRA CURRICULAR ACTIVITIES

- **Sports** Member of the Inter IIT Contingent for two years; Represented IIT Delhi across **8 national level tournaments**
    - National Level: **Gold medal** in Sportech'18, IIT Delhi representing the institute Football team, amongst 16 competing colleges
    - **Silver medal** in Triquetra 2017, sports fest of NSIT representing the IIT Delhi Football team, amongst 18 competing colleges
  - Institute Level: **Gold medal** in inter hostel Football amongst 11 teams representing and captaining the hostel Football team
    - **Bronze**, IIT Football Premier League; **Gold**, intra hostel **cricket** tournament for two consecutive years 2017 and 2018
    - Organised and managed IIT Football Premier league consisting of **9 teams** and **100+ students** for identification of talent
  - **Activity Head, Sportech** (November, 2016 - March, 2017) : Annual sports fest of IIT Delhi
    - Managed infrastructure, logistics, scheduling as well as primary facilities like medical and refreshments for the football event
    - Compiled the whole schedule of **17 sports tournament** held during Sportech'17; Successfully brought alumni participation
- Awarded Best Fresher 2015-16, Shivalik Hostel for excellent performance in extra curricular activities and academics.**

## POSITIONS OF RESPONSIBILITY

- **Sports Secretary, Shivalik hostel (April, 2017 - March, 2018)** : Elected **unanimously from 400+** hostel residents
  - Led a two tier team of **12 captains** and **12 vice captains** of Shivalik hostel to compete across 12 inter hostel tournaments
  - Introduced Taandav, the sports fest of Shivalik hostel for the **1st time** to increase the interaction and cohesiveness among the hostellers
  - Led a **team of 12** to look into the smooth and successful progress of events held across the span of 2 days in Taandav'18
  - Helped increase the sports culture in hostel to have the **2nd highest** no. of participants amongst 11 boys hostel in Inter IIT'17
- **Events Coordinator, Sportech (November'18 - March'18)** Annual sports fest of IIT Delhi
  - Part of a **4 tier team** to execute the IIT Delhi's annual sports festival, Sportech, with participation of over **1500 sportsperson**
  - Led a **team of 5** to organise and manage the logistics for the Football event including registration, scheduling and infrastructure
  - Managed primary facilities such as refreshments and medical amenities for the smooth running of the tournament
  - Brought **two times increase** in participation in football event; Successfully brought participation of alumni in football
- **Hostel Football Captain, Shivalik House (April 2017 - March 2018)**: Selected for excellent performance in football
  - **Gold medal** in inter hostel football tournament leading a **team of 16** from amongst **11 competing hostel** for the **1st time** in 10 years
  - Mentored and encouraged freshers to participate in various sports tournament held at institute and national level



# GURINDER SINGH SAINI



## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Textile Engineering | Indian Institute of Technology, Delhi | 6.85           |
| 2014 | CBSE                          | G.M.S.S.S                             | 84%            |
| 2012 | CBSE                          | S.G.H.P.S                             | 9.8/10         |

## COURSES DONE

Intro. To Computer Science, Calculus, Engg. Visualization & Comm., Linear Algebra & Diffe. Equa., Experimental Methods, Introduction To Economics, Organization And People Management, Marketing Management

## INTERNSHIPS

- **ACC LIMITED, Sale Unit** (May'18-July'18) : Mr. Dinesh Fuller (Dy. General Manager-Finance) *Financial Management*
  - Performed detailed **profiling** by exploring organisation's competences, shareholders, relations and structure.
  - Conducted research by surveying **250+** debtors on **credit policies** with comprehensive analysis of the results.
  - **Explored Inventory** management, **Warehouse** management and other financial tools for their proper functioning.
  - Calculated **Economic Order Quantity**, limits to ordering quantity for optimisation of carrying and ordering cost.
- **Indian Institute of Foreign Trade (IIFT)**, ((May'17-July'17) : Dr. Ram Singh (Professor) *India U.A.E Trade Relations*
  - **Analysed** trends and fluctuations in highest valued export goods prices between **India, U.A.E and Middle East**.
  - Incorporated **Graphical regression analysis** and interpretation technique for inferring results from primary data.
  - Investigated **mutual dependencies** and proposed several ways to harness trade relations between the nations.

## PROJECTS

- **Introduction To Financial Markets** (Nov,2017-Dec,2017): *Vidya Nathan, IBS*
  - Comprehended complex trading strategies employed in contemporary **Currency Markets** & the rules applied in **Equity Markets**
  - Explored **Fixed Income Market** securities; understood several key economic indicators & fundamentals of **Macroeconomics**
- **Swift Composter** (July, 2017 - September, 2017): *Dr. Kavya Dashora, CRDT*
  - **Innovated** and Fabricated portable Kitchen **waste composter** with modular, quick and easy to use applications.
  - **Optimised cost**, floor space, air circulation & rotor rpm with enhanced energy efficiency and **reduced composting time**.
- **Course Projects:-**
- **Marketing Management & Food Trucks in India** (Jan, 2018 - March, 2018): *Dr. Mahim Sagar, Management*
  - Conducted comprehensive marketing analysis on renowned **case studies** 'Copperia' and 'Winstock' for proposing solution report.
  - Conducting semi-structured surveys & secondary research for **proposing business model** for 'Food Trucks In India'.
- **Time-series Forecasting of India GNP** (July,2018-Ongoing): *Dr. Amlendu Kumar Dubey, Management*
  - Progressing **ARIMA Modeling** on India GNP data of sixty years using the Box-Jenkins method in **R-studio** software.
  - **Performing** Q Test, residual analysis & augmented Dickey-Fuller test and **comparing** 3 models against each other.
- **Strategic human resource management in Walmart stores**(Jan,2018-March,2018): *Dr Suchi Sinha, Management*
  - Analysed different corporate strategy and **HR strategy**; Studied the HR policies and the role of HR manager at **Walmart**.
  - Integrated the study with the corporate strategy and **suggested** improvements to increase the satisfaction of employees.
- **Du Pont 5 point analysis of Indian & global Firms** (July, 2018-Ongoing): *Dr. Shveta Singh, Management*
  - Assessing performance in terms of **operating profit, equity multiplier** and return on equity, by using **paired T-test**.
  - Formulating suggestive strategies for top Indian IT companies, for improving or maintaining financial performance.
- **B Tech. Project :- Impact Protective E-Textiles** (July,2018-Ongoing): *Dr. Abhijit Majumdar, Textile Engineering*
  - Manufacturing Active Smart Bulletproof **Body Armour** for alarming control room by **sensing** unexpected attacks.
  - Researching smart conducting fibres, graphene sheets and other wearable electronics for manufacturing vests.

## EXTRA CURRICULAR ACTIVITIES

- **DRAMATICS**
  - **Finalist in Rendezvous'16:** Selected in final six performance in stage play from more than 30 professional plays.
  - **Winner, Mime,'Jugalbandi' & 'Plan X',Inter Hostel Mime Competition'17 amongst 26 entries(Director, Lead Actor).**
  - **2nd Runner-Up**, Inter Hostel Street Play Competition 2015, 'Pinjara', amongst 13 teams (*Actor*).
  - **2nd Runner-Up**, Inter Hostel Street Play Competition 2016,'Tu Chal', amongst 13 teams (*Director and Lead Actor*)
  - **2nd Runner-Up**, Inter Hostel Mime Competition 2016, 'Mahabharat', amongst 13 teams (*Actor*).
- **KARATE, KICK-BOXING**
  - **Winner,Gold Medal, International** Indo-Nepal Karate-Do Championship; **National** Karate Championship (2008).

## TECHNICAL SKILLS

- Comfortable (C,C++,Microsoft-Office, Autodesk Inventory, Solidworks, R, R-studio)



# HARDIK UPADHYAY



## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Textile Engineering | Indian Institute of Technology, Delhi | 7.638          |
| 2015 | CBSE                          | MDS Public School, Udaipur            | 85.80 %        |
| 2013 | CBSE                          | Central Public School, Udaipur        | 10.00          |

## COURSES DONE

Engineering Mechanics, Engg. Visualization & Comm., Product Realization By Manf., Linear Algebra & Diffe. Equa., Intro. To Computer Science, Calculus, Intr.to Material Sc. & Engg., Experimental Methods, Data Structures And Algorithms, De. & Manuf. Of Text. Str. Co., Design Of Exper. & Stat. Tech.

## SCHOLASTIC ACHIEVEMENTS

- Qualified **Kishore Vaigyanik Protsahan Yojana (KVPY)-2014** securing 98.69 percentile amongst 1,02,777 candidates.
- Cleared **National Standard Examination in Chemistry (NSEC) 2014-15** and qualified for Indian National Chemistry Olympiad (INChO)-2015 conducted by Indian Association of Chemistry Teachers.
- Qualified **National Defence Academy (NDA)-2015** examination conducted by UPSC, shortlisted for SSB Interview.

## PROJECTS

- Cathode for Lithium-Sulphur batteries (Prof. Bhanu Nandan)** (July, 2018 - Present): Designing cathode for one of the most promising future battery technologies using **S encapsulated co-axial carbon nanofibers** through electrospinning.  
- Working on 3 major bottlenecks of present Li-S technology for preventing Sulphur dissolution, expansion & enhancing conductivity; has extraordinary potential with 10X energy storage capacity, yet cheaper, lighter & safer against the widely accepted current Li-ion batteries.
- Thermal Insulation Composite (Prof. Samrat Mukhopadhyay)** (May, 2018 - Present): Designing a thermal composite material with very low thermal conductivity, light weight & yet eco-friendly, using non-wovens; priorly dealing with ETICS; consulted 20+ research papers & patents.
- Table-top model of Computer Numerically Controlled machine (Prof. Sunil Jha)** (Aug, 2015 - Nov, 2015): Designed & built a simpler version of CNC machine delivering motion on all the 3 coordinate axes; modelled its prototype on Autodesk Inventor.
- Simple query processor, Image morphing System in C++ (Prof. Preeti R. Panda)** (April, 2016 - May, 2016)  
- Implemented **triangularisation** of feature points to fill in **pixel values** and formed a video of final transform.
- Statistical Analysis (Prof. Amit Rawal)** (October, 2017): Conducted a detailed statistical analysis of case study problems with Statistical tools such as Z-test, Correlation, Regression, ANOVA & Acceptance Sampling using MATLAB & Minitab.

## POSITIONS OF RESPONSIBILITY

- Secretary, Society for Promotion of Indian Classical Music & Culture Amongst Youth (SPIC MACAY) Club, BRCA** (April, 2017 - March, 2018): Society to spread the valuable Indian Classical heritage amongst youth to inspire them through experiencing the mysticism of rich and heterogeneous cultural heritage of India.  
- Coordinated 6 classical concerts by **Bharat Ratna/Padma Awardees**, 5 heritage/nature trips & 8 classical workshops.  
- Significantly **streamlined** the organisational & financial structure of club, led a team of 13 club representatives & 10 volunteers.  
- Initiated **collaborative** organisation of events with other clubs; **Hosted** a Sitar Concert by a Grammy awardee.
- Student Convenor, SPIC MACAY's 5th International Convention** (July 2017) (level-1 POR)  
- Headed this 7 day Mega event; managed team of 200+ volunteers, logistics, stage decoration, meal planning, itinerary setting & accommodation arrangement of 1500+ participants from around the world; performances by eminent artists.  
- Delivered thanking speech to **Hon. Prime Minister of India, Shri Narendra Modi** on his address to the inauguration ceremony, organised live presence of various **Cabinet Ministers** and VVIP's.

## TECHNICAL SKILLS

- Languages & Softwares: C++, MATLAB, SolidWorks, Autodesk Inventor, Minitab, Eclipse
- Relevant courses undertaken/ongoing: Data str. & algorithms, Cost Accounting, Applied Statistics, Finite Element Analysis

## EXTRA CURRICULAR ACTIVITIES

- Social Endeavor: Volunteer at Prayas Juvenile Aid Center, Tughlakabad (March, 2017 -Present)  
- Tutoring school going children & solving their personal issues as a friend .  
- Teaching specific Yoga asanas and pranayams for enhancing their mental stability and physical health.
- Consistent Yoga practitioner** for last 2 years under the guidance of a highly experienced instructor. (September, 2016 - Present)
- Spearheaded the collection drive of left over mess food & distributing it at official dog feeding spots in campus. (July, 2018)



# HARSHVARDHAN ARORA



## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Textile Engineering | Indian Institute of Technology, Delhi | 8.187          |
| 2015 | CBSE                          | Modern Delhi Public School            | 92.8%          |
| 2013 | CBSE                          | Modern Delhi Public School            | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- **Deep Learning Specialization:** An extensive 5-course specialization offered by *deeplearning.ai* on Coursera (Jul 2018)
- **Machine Learning:** An introduction to concepts of Machine Learning by *Stanford University* through Coursera (Nov 2017)
- **KVPY Fellowship Award:** Awarded Fellowship through a rigorous 2-tier process selection by *DST, Gov. of India* (2013)
- **NTSE Scholar:** Awarded national scholarship through a rigorous 2-tier process by the *Government of India* (2011)
- **Australian National Chemistry Quiz:** High Distinction award by Royal Australian Chemical Institute for exemplary performance (2011)
- **Scholar's Gold Shield:** Awarded gold shield for **6** consecutive years of exemplary academic performance in school (2015)
- **International Mathematics Olympiad:** Secured an international rank of **106** in the final round of IMO conducted by *SOF* (2013)
- **National Cyber Olympiad:** Secured an international rank of **77** and **102** in the NCO conducted by the *SOF* (2012, 2011)

## INTERNSHIPS

- **Wipro Ltd., Greater Noida, Cyber Risk Services** - (May 2018 - July 2018): *User Access Automation through Machine Learning*
  - Developed a program using **Machine Learning** architecture to automate the process of handling user provisioning requests
  - Trained the Machine Learning model by using **Convolutional Neural Network** and **Support Vector Machine** architecture
  - Improved the speed of the process from 15 minutes per request to completing multiple requests in a few seconds (**1000x** faster)
  - Categorization of fresh entries into respective categories with a **99.2% accuracy** and a **0.95 precision/recall score**

*Received a Pre-Placement Offer (PPO) in lieu of outstanding work done & initiatives taken during the internship period*
- **Eysolare, CIIE, IIM New Campus, Ahmedabad** - (Nov' 2016 - Dec' 2016): *Financial Analysis of building Solar Plant*
  - Researched on parameters & developed a **Solar Financial Feasibility Calculator** to predict payback period of any solar plant
  - Analyzed the viability of performing Thermography and IV Testing of the panels at the solar plants with the help of drones

## PROJECTS

- **Deep Learning Specialization** - *deeplearning.ai* - (March 2018 - July 2018):
  - Autonomous driving car detection through **machine learning** model based on **YOLO** architecture to identify cars in images
  - Sign recognition of a hand depicted number in an image through a **Convolutional Neural Network** using *Tensorflow*
  - Generating novel artistic images from an input content and style image by implementing the **Neural Style Transfer** algorithm
- **Machine Learning** - *Stanford University (Coursera)* - (Sep' 2017 - Nov' 2017):
  - Implemented a Multi-Class **Logistic Regression** architecture to develop a **Handwritten Numeric Digit Recognition** software
  - Built an email **Spam Classifier** software using support vector machine (**SVM**) architecture trained using Gaussian Kernel
  - **Image compression** program using **K-means clustering** by reducing the number of colors to most frequently occurring ones
- **Training and Placement Cell** - *Prof. Ragesh Jaiswal* - (Feb' 2017 - March 2017):
  - Implemented the **Gale-Shapley** algorithm to design a program to match students and companies for placement process
  - Achieved the desired stable matching with a provision to add and edit all the details of the students and the companies
- **Rendezvous Event Manager** - *Prof. Ragesh Jaiswal* - (March 2017 - April 2017):
  - Implemented **heap-of-heaps** for a fest management application to manage the data of each event and participant in the fest
  - Provision to edit participant's score and using bubbling to rearrange entries in the heap to return lead scorers at any time
- **Statistical Analysis of Microbial Loading** - *Prof. Dipayan Das* - (Sept' 2017 - Nov' 2017):
  - Analysed a research paper & derived additional inferences using ANOVA, regression and hypothesis testing on **Minitab**
  - Determined **correlation** in microbial load of samples found at target food joints to conclude common source of contamination

## POSITIONS OF RESPONSIBILITY

- **Admin & Finance Coordinator, Tryst'18**: *Annual Technical fest, IIT Delhi*
  - Planned and strategized the disbursement of the allocated budget by formulating a comprehensive dynamic spreadsheet
  - Conducted all financial operations through the **IRD** department for the first time to improve the accountability of transactions
  - Led a team of **15** members to ensure swift processing of bills thus reducing the YoY duration of the process by almost **50%**

## EXTRA CURRICULAR ACTIVITIES

- **Marketing**: Ac Head, Rendezvous; Procured sponsorships, managed promotions and conceptualized targeted events (2017-18)
- **Mentor**: Guided **4** freshmen to ensure a smooth transition, ensuring they are not put through any stressful interaction (2017-18)
- **SPIC MACAY**: Volunteered in Lelo-Nika Trio Band performance, Talk on Modern Art and various events of Virasat'17 (2016-17)
- **Music**: Junior Diploma, First Division in classical music (Vocal) from the *Prayag Sangeet Samiti* in Allahabad (2009, 2010)



# JESSICA



## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Textile Engineering | Indian Institute of Technology, Delhi | 9.385          |
| 2015 | CBSE                          | SD Public School, Chandigarh          | 93%            |
| 2013 | CBSE                          | Shivalik Public School, Nawanshahr    | 10/10 GPA      |

## SCHOLASTIC ACHIEVEMENTS

- **IIT Delhi Semester Merit Award:** Awarded for 3 semesters for getting placed in top 7% students with **Department Rank: 1**
- **NTSE Scholarship:** Qualified for the scholarship by clearing the National Talent Search Examination in 2013
- **Qualified RMO:** Cleared the Regional Mathematics Olympiad from the Northwest Region in 2013

## INTERNSHIPS

- **Xane AI, Gurgaon, Haryana (May, 2018 - July, 2018) : Natural Language Processing:**
  - Trained and implemented an Intent Classifier to classify reviews and responses into their appropriate categories
  - Built a Sentiment Analyser for employee reviews utilizing Word2Vec word embeddings and a Neural Network classifier
  - Successfully employed Web-scraping to extract reviews of multiple restaurants from review-based websites, like Zomato

## PROJECTS

- **Feature Selection in Hyperspectral Data, Course Project (Professor Jayadeva)** (January, 2018 - April, 2018) :
  - Programmed modified versions of two recently published novel techniques of feature selection on Hyperspectral datasets
  - Conducted a comparative study of their performance with Feast toolbox methods of Feature Selection
- **Introductory Data Science Projects (MOOC)** (September, 2017 - January, 2018) :
  - Completed a project on creating Analytic Graphics as exploratory Data Analysis of electric-power consumption data
  - Produced a Tidy dataset and its Code book, from public raw data on human activity recognition by smartphones
  - Coded R scripts to find multiple statistics of different pollutants based on data across 332 different locations
- **Data Structures and Algorithms Assignments (Professor Saroj Kaushik)** (January, 2018 - April, 2018) :
  - Built Vanilla Pagerank: a basic version of the webpage matrix, by implementing a Sparse Matrix with Circular Linked-Lists
  - Created a Market Data Publisher and a Travel app, as implementations of AVL trees and MST & shortest paths respectively

## TECHNICAL SKILLS

- **Programming Languages:**
  - C and C++ :- Coded assignments for the introductory course and Data Structures and Algorithms in these languages
  - Python :- Utilised during Machine Learning course and term project and during internship projects in NLP
  - R :- Completed with certification, online courses, including assignments, on using R for Data Science
  - Java :- Completed introductory and data structures online courses on Java, along with the course projects
- **Softwares:**  
MATLAB, LINGO, MS Office, Google Analytics

## EXTRA CURRICULAR ACTIVITIES

- **Dance**
  - Placed 2nd among 50+ teams in Western Group Dance Competition, Rendezvous '16, as part of **IIT Delhi's team**
  - Secured 3rd position among 13 hostels in Inter Hostel Group Dance '16 as performer and choreographer of the team
- **Athletics**
  - Secured 1st position in Women's Athletics Inter hostel tournament, 2017 in 200m, 800m, 4\*100m relay and 1500m races

## COURSES DONE

Intro. To Computer Science, Calculus, Fundamentals Of Language Sciences, Applied Game Theory, Probability & Stochastic Pro., Data Structures And Algorithms, Machine Intelligence& Learning

## POSITIONS OF RESPONSIBILITY

- **Dance Representative, BRCA** (April, 2016 - August, 2016) :
  - Assisted in management of Institute Dance Production (IDP) '16, including practices and final performance showcase
  - Promoted and publicised Duo+ '16, an Inter Hostel Dance Competition, among the 13 hostels of IIT Delhi
  - Conducted interactive dance workshop for hostel freshmen as an introduction to the Dance Club in the Hostel Cultural Festival
  - Handled the dance events of Kailash House Day '16, the official hostel farewell programme for graduating students
- **Athletics Vice Captain, BSA** (April, 2017 - September ,2017)
  - Introduced hostel freshmen to the Women's Athletics team and encouraged participation of freshmen and seniors alike



# KAMAL KANT

## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Textile Engineering | Indian Institute of Technology, Delhi | 7.853          |
| 2014 | AISSCE/CBSE                   | D.A.V. Kapildev Public School         | 94%            |
| 2012 | AISSE/CBSE                    | D.A.V. Kapildev Public School         | 9.8/10         |

## SCHOLASTIC ACHIEVEMENTS

- **International Conference:** Secured **3rd position** for the product presentation in Functional Textile Clothing Conference
- **National Science Exhibition:** Showcased my model on 'Surveillance Robot for National Security Guards' in Delhi
- **Regional Science Exhibition:** Received **certificate of merit** for showcasing my science project among 120 teams
- Consistently ranked among **top 3 for 6 consecutive years** and secured **1st position** among 280 students in class XI
- Awarded a **scholarship worth INR 50000** by the community club for meritorious performance in JEE Advance-2015

## INTERNSHIPS

- **Aster Solutions, New Delhi** (May, 2018 - July, 2018) : *Business Developer*
  - Recieved a **Letter of Recommendation** for commendable work accomplishments and demonstration of excellent conduct
  - Synthesized core issue of relevant stakeholders of the real estate industry through multiple brainstorming sessions
  - Overlooked the hiring process by **shortlisting and conducting 5+ interviews** for organizational level job openings
  - Coordinated with property managers and members of technical team to improve the company's existing website
  - Defined and **conceptualized company-wide processes and policies** by analyzing pre-existing legal documents
  - Directly involved in the **brand creation and logo designing** for the real estate section of the company
  - Mapped a future timeline to ensure speedy internal growth and business development of the company

## PROJECTS

- **Designing of Autism Jacket (Dr. Deepti Gupta)** (May, 2017 - July, 2017) :
  - Presented the project in International Functional Textile and Clothing Conference (FTCC) and got 3rd prize
  - Led & managed the team of 3 students and assigned roles to each member to ensure timely completion of the project
  - Used 5 different lab specification techniques to get the best fabric in terms of strength, durability and finish
- **Designing of Lab Layout (Course Project: S.M.Ishraque)** (April, 2018 - May, 2018) :
  - Drafted the layout of pre-existing Lab by taking inputs for lab and machine dimensions and using SweetHome 3D software
  - Designed the new layout of Textile Testing Lab ensuring minimum space requirement and safety parameters in mind
- **Designing of Family Table (Course Project: Sunil Jha)** (Aug, 2015 - Nov, 2015) :
  - Combined 7 machine workshop techniques to build a fold-able table and got a perfect 10/10 by the faculty supervisor

## TECHNICAL SKILLS

- **Languages & Softwares:** C, C++, Java, HTML, SQL, Autodesk Inventor, Adobe Photoshop CS6, Minitab, MS Office
- **Relevant Courses:** Probability, Intro. to Computer Sc., Production & Operation Mngment, Costing, Medical Textiles, Applied Statistics

## POSITIONS OF RESPONSIBILITY

- **B.Tech Representative, Hostel** (April, 2018 - Present) :
  - Actively took part in raising Problems and suggesting related to B.Tech In meetings with Professors and House Meetings
- **Hostel Snooker Captain, BSA** (April, 2017 - March, 2018) :
  - Conducted practice and selection session for Inter Hostel Pool Tournament 2017 for 20+ participants
- **Head Boy, School** (April, 2012 - March, 2013) :
  - Single point of contact for disciplinary activities of 1000+ students and organised P.T. workshop for 2000+ students

## EXTRA CURRICULAR ACTIVITIES

- **Sports and Games :**
  - **Winner**, Inter-hostel pool, IIT Delhi: Ensured hostel's 1st position among 11 teams for the year 2017-2018
  - **Winner**, 4x100m relay, School annual day: Secured 1st position among 8 participants for the year 2012-2013
  - **1st Runner Up**, Ranchi District Carrom,: Secured 2nd position among 120 participants for the year 2012-2013
  - Got Selected in a team of 5 for **IIT Roorkee Sports Fest Sangram** to represent IIT Delhi in Snooker.(2017-2018)
- **Cultural :**
  - **Winner**, Intra-Hostel Logo Making Competition, Ensured 1st position among 25+ participants for the year 2015-2016
  - **2nd Runner Up**, Inter-Hostel Sculpture Making, Ensured 3rd position among 39 participants for the year 2016-2017
  - Organised Charcoal Painting **workshop for 40+ participants** for inter-hostel event for the year 2016-2017
  - Worked with a team of 30+ members to decorate hostel for House Day celebration for the year 2015-2016



# MADHAV RANKA



## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Textile Engineering | Indian Institute of Technology, Delhi | 7.403          |
| 2014 | CBSE                          | Delhi Public School, Udaipur          | 92.8%          |
| 2012 | CBSE                          | St. Paul's Sr. Sec. School, Udaipur   | 9.2/10         |

## SCHOLASTIC ACHIEVEMENTS

- **JITO:** Awarded **merit certificate** for **exemplary** performance and **consistent scholastic achievement**(12 years) [2014]
- **National Cadet Corps:** Certified with **A** grading in the Examination held under authority of **Ministry of Defense** [2011]
- **Uni. of New South Wales:** Awarded **Credit** in international examination for Mathematics (2011) and English [2009-2011]
- **Merit Certificate:** Secured **AIR 378** in Interactive Science Olympiad held in many countries by Eduheal Foundation [2008]

## INTERNSHIPS

- **Xane AI, Gurgaon** (May, 2018 - July, 2018) : *Dashboard Analytics, Bot Design, Front End Development*  
**Remodeled** admin's dashboard interface and features using **React & Node** to facilitate improved customer experience  
- **Implemented** real time notification system to send & receive notification from the bot & employee side using **Firebase**  
- Designed more user friendly web-app & mobile-app interface by adding new elements and altering out the previous bugs  
- **Formulated** analytics like **time series analysis** using **R**, 3D-correlations, interactive tables and multi-division org chart  
- **Implemented** a live chat interface and **added** a feedback feature on the dashboard to reply to the employee feedback  
**Awarded a Pre Placement Offer** for **exemplary** work in both **Dev. Ops** and **Front End Dev.** which went to production
- **MaalGaadi, Indore** (May, 2017 - June, 2017) : *Product and Development Operations*  
**Ensured** increased customer traction & **better** efficiency of various in-house & ground processes by **proposing** automation  
- **Reduced** the driver boarding time by **83%** by conceiving an app which was initially done **manually** by ground boarders  
- **Led** the team to develop an app for booking transport to **replace** the existing process ensuring better customer experience  
- **Designed a document verification** process where the driver uploaded the document which was verified remotely using app  
**Received a letter of recommendation** from the company's Director for exemplary **designing and consulting** skills

## POSITIONS OF RESPONSIBILITY

- **Coordinator, Events Team, BRCA-Rendezvous'18** (April, 2018 - November, 2018) :  
- **Led** a 2-tier team of **200+** executives to **conceptualize and execute 100+** events **catering** to **13000+** participants  
- **Collaborated** with and **contracted** various high-profile **YouTube** artists and **organised** one-of-its-kind YouTube convention  
- **Conceived and executed** a **new** Sufi event (Shaam-e-Ghazal) with various Sufi Artists **catering** to spectrum of crowd  
- Redesigned the structure of the opening night and incorporated diverse performances exhibiting various cultures  
- **Organised** RDVs flagship fashion event **Lifestyle** with participation from **20+** fashion societies, conducted in OAT
- **Coordinator, Publicity Team, Sportech 2018-BSA** (December, 2017 - March, 2018) :  
- **Led** a team of **30+** to **manage** on-ground, off-ground & online publicity and **cater** to the creative requirements of 50+ events  
- **Conceived** the theme for the fest; **supervised** the content & creative requirements of all print material, official merchandise  
- **Provided** extensive coverage of **300+** league matches played among **180** colleges across **17** championships in **3** days  
- **Halved** the coverage **release time** by **expediting** scheduled & timely release of photographs with detailed match analysis

## EXTRA CURRICULAR ACTIVITIES

- **Hostel Activities**:**Awarded for Outstanding Contribution to Cultural Activities** accounting **consistent contribution** ['18]  
- **Table Tennis**: Represented in league matches of the **inter hostel** tournament **enabling** the team to bag a **gold medal**  
- **BHM Stall**: **Conceived** and **implemented** the design of the annual hostel art stall set up in the BHM night for **3** years  
- Participated in various institute level dance competitions being in a crew of **20** people selected from **400** hostel residents
- **Board for Students Welfare**: **Awarded for Outstanding Contribution to the Student Mentorship Programme** [2018]  
- **Events Coordinator, Speranza**: **Ideated** and **executed** various events in the **3 day socio-cultural youth fest** [2017]  
- **Mentor**: **Planned** and **executed** **3** day orientation with various events of **900** freshmen **leading** a team of **50+** [2018]
- **Azure - Fine Arts and Crafts Club**: *Team Member, Mentor, Designer*  
- **Meandering Paths**: **Conceptualized, designed and executed** the mural of exhibition hall with a team of **20** [2017]  
- Art from Junk: Received a **Certificate of Appreciation** from **Dean Infra**. on successful completion of art installation [2017]
- **Social Endeavors - Vishwas Sansthan**:  
- **Interned** to induce **technical and interpersonal skills** and values like team work and punctuality in women [2017]  
- Worked as a **capacity building trainer** with a batch of **60** women and taught them basic technical skills like MS-Office
- **Program Manager, Timeline Films - Photography and Filming Club** (July, 2017 - May, 2018) :  
- **Spearheaded** the casting and logistics, **scheduling and allotment** of tasks, **handled** public relations and social outreach  
- **Conducted** photo walks & video shoots enabling the team to honor their skills and **motivated** them to increase participation.



# MADHURI GURJAR



## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Textile Engineering | Indian Institute of Technology, Delhi | 7.516          |
| 2014 | BSER(RBSE)                    | YADAV BHARTI SR. SEC. SCHOOL          | 81.20          |
| 2012 | AISSE(CBSE)                   | RSV HR. SEC. SCHOOL                   | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- **Merit Certificate from CBSE:** Awarded for outstanding performance; Secured **Grade A1** in all the **5 subjects** (2012)
- **Gargi Puraskar:** Awarded scholarship for **Balika Protsahan** based on merit by Board of Secondary Education, Rajasthan(2014)
- **Academic Scholarship:** Conferred scholarship worth INR 10000 as an encouragement initiative for **excellent performance**(2012)
- **Grade Point Average:** Consistently increased SGPA from 4.471 in first semester to 8.373 in fifth semester; **87.27% increase**

## INTERNSHIPS

- **Revolutionaries Motivation, New Delhi** (May, 2018 - July, 2018) :
    - Organised **3 sessions** for blind girls seeking admission in DU by collaboration with **Samarthanam Trust for the Disabled**
    - Increased social media outreach to **1000+** followers on big platforms(fb,Instagram) through **constructive pattern spamming**
    - Maintained and pitched a dynamic database for leads and contacts of organizations for **Revolutionaries collaborations**
    - Developed **innovative marketing** and **promotional strategies** to increase potential collaboration with our organisation
- Received Letter of Recommendation form Chief leading officer for exemplary work accomplishment & leadership qualities*

## PROJECTS

- **MultiThreaded Stock Exchange** (August,2017):
  - Devised a stock exchange model which supports bid and ask orders and matches so as to **maximize net profit**
  - Implemented orders using threads and followed **greedy approach** while matching them to maximise volume weighted spread
- **Mobile Phone Network System model** (September 2017):
  - Designed hierarchical exchange based **Routing Map Tree** implementing the Mobile Phone networking system
  - Included the features of call routing between mobiles and location tracking using the concept of location based exchanges
- **Search Engine model** (October, 2017):
  - Created a Java implementation of a search engine which gives sorted list of matching pages according to relevance
  - Provided a search interface using **Hashmaps** and **AVL trees** supporting complex searches with OR, AND & phrase based queries
- **Taxi Allocation Problem** (November, 2017) :
  - Modeled real life taxi allocation problem using **graph data structure**; service finds the nearest taxi based on client's location
  - Calculates the optimal journey route using **Dijkstra's** shortest path algorithm, after allocating the nearest available taxi
- **Course Projects (2015-18): Professor P.V.M. Rao // IIT Delhi**
  - **Entrepreneurship:** Prepared **Business Model Canvas** on Book cafe; Combined Mobile phone with Jan Dhan & Aadhar Card

## TECHNICAL SKILLS

- **Relevant Course:** *Introduction to Computer Science*
  - **Economics:** Microeconomics, Applied Game Theory, Econometric Methods, Introduction to economics
  - **Mathematics:** Probability and Stochastic Process, Differential Equation, Linear Algebra, Calculus, Numerical Methods
- **Programming Languages:** C, C++, Java, Python, Octave, R; **Software:** MATLAB, Origin, Autodesk Inventor

## EXTRA CURRICULAR ACTIVITIES

- **Dramatics and Film Making :** *Significant contribution to Dramatics (Stage,Street and Mime) for 3 consecutive years*
  - **Winner**, Rendezvous Street Play Competition (**National Level**), *Soubrette*, a play **Uncounted 3.5 Crore** on Orphan's Lives (2016)
  - **Runner up**, Inter Hostel Street Play Competition, *Lead Actor and Director*, a play on **Superstition** by Anvesha (2016-17)
  - **Edged Actor**, Inter- Hostel Music Video Competition, based on **LGBT** (Lesbian, Gay, Bisexual, Transgender) (2016-17)
  - **Supervisor and Artist**, Two entries in Inter-Hostel Mime Competition among 26 teams, comedy and patriotic themes (2016-17)
- **Athletics :** *Represented Kailash House in Athletics at Institute level for 3 consecutive years*
  - **Gold** Medallist, 4x100m relay race among 7 teams; Contributor in **Athletics Championship, IIT Delhi** (2016-17)
  - **Silver** Medallist, 12-15 participants in 1500m race; Participant, Institute Level Shotput and Discuss Throw (2016-17)
  - **Bronze** Medallist, 15-20 participants in 200m, 800m races, High jump and Long jump, **Institute Level** (2016-17)
- **Academic Mentor** under Student Mentorship Programme for **2 consecutive semesters**
  - Conducted **Academic session** for 60+ students for Engineering Visualization at Kailash hostel & Himadri hostel (2017)
  - Navigated students for software **Autodesk Inventor**; Conducted doubt sessions, 2 hours a week to build **scholastic culture**(2017)
  - Mentored dropper **fresher** to assure **smooth transition** into **IIT Delhi**, ensuring comfort to avoid any stressful interaction(2018)



# MAYANK SONI



## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Textile Engineering | Indian Institute of Technology, Delhi | 6.671          |
| 2014 | RBSE                          | Aastha Academy                        | 72.4           |
| 2011 | WBBSE                         | Shree Jain Vidyalaya                  | 76.2           |

## COURSES DONE

Intro. To Computer Science, Intro. To Electrical Engg., Calculus, Engineering Mechanics, Engg. Visualization & Comm., Product Realization By Manf., Linear Algebra & Diffe. Equa., Data Structures And Algorithms, Production & Operations Mgmt

## SCHOLASTIC ACHIEVEMENTS

- **International Conference**-Secured **3rd** place for product presentation in FTCC among 33 universities from 22 countries
- **Science Exhibition:** Successfully participation in Science Exhibition for development of different computer generation models

## INTERNSHIPS

- **The Ladli Foundation Trust, Delhi** (December2017) : *Run For Laadli*
  - Led and managed the team of 4 members and assigned duties for the publicity of the event
  - Successfully helped in organising the event with The Ladli Foundation Trust and Delhi Police
  - Managed **20,000+** participants in the Marathon **to promote the cause of gender equality and women safety**
  - Organised the publicity booth at different popular social gathering spots in Delhi for 10 consecutive days
- **Lokaci Pvt. Ltd., Noida** (May, 2018 -July, 2018) : *Marketing*
  - Market research analyst driven to help company refine their product based on the customers' and service providers' feedback
  - Modeled the financial approach by analysing the vendors requirement via documentation, interview, personal meets
  - Drafted market research by contacting **120+** service providers on behalf of the company
  - Successfully collaborated with 20 service providers and liaison them with the company

## PROJECTS

- **Autism Jacket (Dr. Deepti Gupta)** (May, 2017 - July, 2017) :
  - Designed a pressure jacket for Autistic children
  - Used 4 different lab techniques to get the best fabric results in terms of strength and durability
  - Presented the project in International Functional Textile and Clothing Conference (FTCC) and got 3rd prize for the it
  - Future work will aim at automatisation of jacket using electric pump and mobile connectivity
- **The Helping Hand (Course Project)** (Jan, 2016 - May, 2016) :
  - Developed a mechanical hand for wheel-chair users to lift things from the ground
  - Used 4 different machine workshop technique to design make and assemble the product
- **Puzzle Solver (Course Project)** (October, 2017) :
  - Developed a Puzzle solver program using Dijkstra's Algorithm and Binary Tree data structure.
- **HASHING for STRINGS (Course Project)** (September, 2017) :
  - Developed an algorithm to search for anagram in a vocabulary using collision resolution and hash functions
- **Design of Lab Layout (Course Project)** (April, 2018 - May, 2018) :
  - Drafted the layout of the pre-existing Lab by taking inputs on lab and machine dimensions
  - Designed the new layout ensuring minimum space requirement and sufficient space for the demonstration
  - Used **SweetHome 3D** software to design the layout with safety parameters in mind
- **Sulphur encapsulated fibres for Li-Sulphur batteries (Dr. Bhanu Nandan, B.Tech Project)** (July, 2018- November, 2018) :
  - Designing coaxial fibres encapsulated with sulphur using electro-spinning for cathode in Li-Sulphur Batteries
  - Working on the 3 major bottlenecks of present Li-S technology for preventing S dissolution, expansion & enhancing conductivity; has extraordinary potential with 10X energy storage capacity, yet cheaper, lighter & safer against the widely accepted current Li-ion batteries

## TECHNICAL SKILLS

- **Programming Languages** :- Java, Swift.
- **Software** :- Autodesk Inventor, Xcode, Eclipse, MiniTab, Sweet Home3D



# NAVYA SOOD

## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Textile Engineering | Indian Institute of Technology, Delhi | 7.843          |
| 2015 | CBSE                          | Mount Carmel School, Delhi            | 96.2%          |
| 2013 | CBSE                          | Mount Carmel School, Delhi            | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- **Merit Certificate by CBSE:** Awarded to top 0.1 percentile for outstanding performance in Class 12 boards ('15)
- **International Mathematics Olympiad:** Achieved 70 & 149 (international rank); 5 & 34 (state rank) in level 2 ('12-'13)
- **International Olympiad of English Language:** Achieved an international rank of 54 & state rank of 11 in level 1 ('10)
- **Scholar Badge:** Awarded merit certificate for 6 consecutive years, for exceptional academic performance ('10-'15)

## INTERNSHIPS

- **Wipro Limited, Pune:** User Interface for Automatic Speech Recognition (ASR) models (May' 18 - July '18)
  - Developed Web-Service & UI using Python Flask to build ASR models; implemented across multiple internal projects
  - Formulated a method allowing the user to check model building status; the built models transcribe audio to text in realtime
  - Used big data concepts such as queues for handling large number of simultaneous user requests on the webservice
 Received Pre-Placement Interview (PPI) offer in lieu of outstanding performance
- **Pine Labs (Market leader in PoS solutions), Noida:** App Optimisation & Product Development (May '17 - July '17)
  - Implemented growth hacking & digital marketing strategy, optimizing for ROI; increased usage & downloads by 5x to 50 thousand.
  - Designed & implemented a data-driven application rating model for improving the app ratings & increasing the reviews
  - Developed a dual referral module, bucketing & providing user-based personalized incentives to over 75 thousand customers

## EXTRA CURRICULAR ACTIVITIES

- **Debating :** Participated in over 10 debates at the intra-college & inter-college level
  - Awarded Significant Contribution to Debating Club, Kailash Hostel in recognition of achievements & mentoring freshers ('17)
  - Among the Top 5 speakers in the IIT Delhi Annual Fresher's Parliamentary Debate across all participating teams ('16)
  - **Coordinator & Moderator:** All India Political Parties Meet IIT Delhi; Over 20 participants representing ministers ('17)
    - Moderated multiple sessions of debates & concluded with drafting of the bill with agreement from all participants
  - **Runner's Up** Inter-House Declamation Competition across 8 Houses and all grades ('10)
- **Marketing:** Led a team of 5 students as Activity Head in Rendezvous ('17)
  - Procured sponsorships, managed promotions & formulated targeted events for Rendezvous, BRCA & its patrons
  - Analyzed marketing strategies of firms, aligned their needs with the festival & explored digital marketing avenues
- **Social Endeavours:** ('15-'17)
  - **NAB:** Volunteered to teach visually impaired students handicrafts, language skills, computer skills & web surfing
  - **Content Development:** Designed Maths, English & Science worksheets for underprivileged primary school students
  - **Internship at Shiksha Sankalp:** Performed academic research, ground visits, identified factors affecting education
    - Provided actionable recommendations to Shiksha Sankalp by identifying the deficiencies in their current model
- **Miscellaneous:**
  - **Case Study:** Among Top 5 teams in the campus round of Techspark; technical case study competition by HUL ('17)
  - Anchored several events at the institute level such as BHM night & 5+ events at the national level in Rendezvous ('16-'17)
  - **Winner:** First position among 13 teams in Interhostel Group Dance Competition ('16)

## POSITIONS OF RESPONSIBILITY

- **Events Coordinator Economics Club:** Planned & executed all club events (July '17 - May '18)
  - Led a team of 6 executives, maintained close liaison with authorities & ensured logistics & infra requirements were adequately met.
  - Co-organised events such as Tuesday night discussions on pressing topics, a case study competition, panel discussions & talks
  - Designed & implemented a strategy game "Cartel Wars"; restructured other strategy games increasing participation by 50+ students
  - Organised events with eminent personalities eg. CEO PWC, Sec. MHRD, Padma Shree awardees to enhance outreach

## PROJECTS

- **Data Structures and Algorithms** (Jan '17 - May '17)
  - Rendezvous Events Manager: Used heap of heaps data structure to rank scores of a million participants in various events (JAVA)
  - Training and Placement Cell: Developed a stable matching algorithm for suitable allocation of companies to students (JAVA)
- **Applied Statistics** (July '17 - Nov '17)
  - Analysed a research paper & derived additional meaningful statistical inferences from its data using Minitab software
  - Used ANOVA, regression, control charts, hypothesis testing, graphs, etc. to perform root-cause analysis on the data



# NITESH AMLIYAR



## ACADEMIC DETAILS

| Year | Degree / Board                        | Institute   | GPA / Marks(%)  |
|------|---------------------------------------|---|-----------------|
| ---  | B.Tech in Textile Engineering<br>RBSE | Indian Institute of Technology, Delhi<br>MAHARSHI SANDEEPAN, NEW<br>JAWAHAR NAGAR, KOTA | 5.321<br>76.60% |
| 2014 | RBSE                                  | VIDHYA NIKETAN,<br>MADARESHWAR, BANSWARA  | 81.00%          |
| 2012 |                                       |   |                 |

## PROJECTS

- **Development of novel Cooling Jacket (Prof. R. Chattpadhyay)** (June 2018 - Present) :
  - Developed a smart textile for performance in high temperatures using Peltier effect and Liquid Nitrogen based cooling.
  - Successfully demonstrated the concept of cooling by Liquid Nitrogen through circulation in the fabric for the first time.
  - Increased the insulating properties of the fabric by incorporating several aluminized and silver coated layers.
- **Development of novel Airbag Belt (Prof. Bipin Kumar)** (May 2018 - Present)
  - Designed** and **fabricated** an innovative 'Airbag Belt'; a wearable safety device for pregnant ladies and senior citizens.
  - Designed a Sodium Azide & Potassium Nitrate based Nitrogen inflator for the belt to prevent accidental trauma.
  - Currently working on integration of inflator with belt and development of experimental set up for testing the performance.
- **Aerial Vehicle Design (Prof. Supreet Singh Bahga, Prof. Amit Gupta)** (May 2017 - Present) :
  - Designed a 1500 gm thrust generating, autonomous four rotor drone including mechanical and electrical frameworks.
  - Automated drone to **manoeuvre & hover** above **preset coordinates** using Pixhawk IC & ArduPilot software interface.
- **Design of Portable Picnic Table (Prof. Sunil Jha)**(Sept. 2015 - Nov. 2015)
  - Designed and manufactured a DIY portable, lightweight foldable picnic table with several customisable features.
  - Implemented CAD model and iterated the dimensions for minimum stress in all configurations using Autodesk Inventor.

## POSITIONS OF RESPONSIBILITY

- **Inventory-Coordinator of Aeromodelling Club** (April 2017-April 2018)
  - Managed all the Inventory of the club and facilitated in club's smooth functioning.
  - Designed, fabricated and successfully flew different type of RC trainer & acrobatic aircraft.

## COURSES DONE

Calculus, Experimental Methods, Environmental Science, Minor Design Project - Vi, Electromagnetic Waves&qua.mec., Mechanics Of Solids And Fluids, Calculus, Social Science Approaches To Development, Manufactured Fibre Technology, Mechanics Of Solids And Fluids, Introduction To The Sociology Of India, Minor Design Project - Vii, Rural Industrialisation Polices Programmes And Case, Evaluation Of Textile Material, Theory Of Textile Structures, Speciality Yarns And Fabrics, Product Design And Development

## TECHNICAL SKILLS

- **Software:** Autodesk Inventor, CorelDraw, MS office

## EXTRA CURRICULAR ACTIVITIES

- **Student Coordinator for Fifth Boeing IIT-National Aeromodelling Competition FINALS**, April 2018.
  - Helped in handling various aspects of logistics, infrastructure and hospitality of the event.
- **Aeromodelling Club-IIT Delhi**
  - Second Runner up among 2 Participating teams in RC Aircraft Competition in Tryst'18-IIT Delhi.
  - Represented IIT Delhi in **Boeing-IIT national aeromodelling competition** in IIT B in Dec 2016, 17 & Qualified first round (Secured Top 30 among 80 teams) in IIT M zonals in Jan 2018.
  - Organized "Glider Design Challenge" (Tryst'17 &'18) and "RC Aircraft Competition" (Tryst'17) with around 30+ participating teams each year.
  - Helped in setting up a stall in Tour of stalls for fresher's orientation which Director of IITD had visited and appreciated.
- **Activity Head, Security, Rendezvous 2017 :**
  - Activity Head in Security Team in IIT Delhi's annual cultural fest-Rendezvous-2017.
  - Leading and Managing team of 5 members to manage security of big night concert of Rendezvous-2017.



# PARTH DIXIT

## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Textile Engineering | Indian Institute of Technology, Delhi | 7.197          |
| 2015 | CBSE                          | Delhi Public School Ghaziabad         | 93.4           |
| 2013 | CISCE                         | St. Joseph's Academy, Ghaziabad       | 94.3           |

## SCHOLASTIC ACHIEVEMENTS

- **Minor Degree in Design** under Department of Design, IIT Delhi, with 7/20 credits earned and a GPA of 9.5/10
- **International Publications:** Co-authored 2 research papers in Product Design and Textile Technology
  - Dixit P, et al. 'Design of high absorbency sanitary pads using core-sheath yarns', IJARIIT; Impact Factor = 4.295 (2018)
  - Dixit P, et. al. 'Design of Ultrafine Nanofibers/nets for Varied Textile Applications', IJAMR; Impact Factor = 2.153 (2018)
- **AIR 46**, National Level Science Talent Search Examination, NSTSE - out of 2 Lakh candidates (2015)
- **AIR 219** - ISTE Srinivasan Ramanujan Mathematics Competition - University Level National Mathematics Exam (2016)
- **International Rank 2381**, Science Olympiad Foundation International Mathematics Olympiad (SOF-IMO) (2013)
- **Design and Innovation Summer Award, DISA** : 1 out of 20 recipient projects selected from among **850+** students (2017)

## INTERNSHIPS

- **Accenture Strategy**, Management Consulting (June, 2018 - July, 2018)
 

*Re-alignment of all business portfolios to enhance operational synergies for a leading media conglomerate*

  - **Designed a framework** to identify 162 potential business partners in MP based on financial strength, industry connects and experience
  - **Automated** the process of **Market Mapping** using Python; Generated a list of **23,560** advertisers for ad sales in a Tier II city
  - Developed a **benchmarking model** for cities for identifying **potential business markets** for the conglomerate
  - Curated a list of 100+ stakeholder targeted publicity events for market entry strategy with detailed business models
- **The National Trust, Ministry of Social Justice & Empowerment**, Organisation for Disabled (Nov, 2017 - Jan, 2018)
 

*Android App development for Indian children with Autism and speaking disabilities to help them communicate better*

  - Designed a **child-centric simplistic UI** and navigation of the app, fully customizable, with a **dedicated child mode**
  - Incorporated various Indian languages, personalized voice and photo addition features considering the cultural diversity
  - Created awareness about Inclusive India Campaign to promote **socio-economic empowerment** of disabled people

## PROJECTS

- **Staircase Climbing Wheelchair**, Guide : Prof. PVM Rao, IIT Delhi and Sorin Grama, MIT (Aug, 2017 - April, 2018)
 

*Design of a low-cost solution for wheelchairs to enable convenient mobility of wheelchair-bound people on staircases*

  - **Collaborated** with a team from **MIT's D-Lab** to develop a functional prototype 'Stair Skis' (selected from among 12 projects)
  - Applied user-centric designing approach to develop a **universal extension** for highly constrained environments
  - Designed 'Stair Skis' extension which comes into action upon tilting the wheelchair and glides over the stair edges
  - Applied for **INR 2 crore funding** via USISTEF fund to promote commercialization of technologies for **societal impact**
- **Mosquito Repelling Fabric**, Guide : Prof. S. Wazed Ali, IIT Delhi (May, 2017 - July, 2017)
 

*Won Design and Innovation Summer Award 2017 for developing innovative fabric to tackle fatal mosquito bites in Delhi*

  - Developed Mosquito Repellent polyester fabric using **natural repellent** - Citronella Oil via a **novel approach** using SINC
  - Imbued Citronella Oil in polyester without altering the chemical/structural properties to impart permanent repellency
  - Optimized the conditions for **eco-friendly** and low-cost production of Mosquito Repellent nets, tents, etc. for rural areas mainly
  - Achieved **78%** mosquito repellency in the treated polyester fabric even after 25 laundry washes i.e. average life of a fabric

## EXTRA CURRICULAR ACTIVITIES

- **Poetry writing**: Practice writing mainly as a hobby in the form of personal Journal entries, also write songs (2017)
  - **Runner-up**, Creative Writing - Unity Day, Wrote a poem-cum-essay highlighting the need of societal unity in modern times
  - Participated in **inter-college** poetry writing event for using art for expression of freedom - Poemages, Gargi College, DU
- **Entrepreneurship culture enhancement** on campus : (2018)
  - Instituted **weekly meetings** for multiple initiatives on various campus-related problems and case studies **with 10 freshmen**

## POSITIONS OF RESPONSIBILITY

- **Coordinator, Technology and Innovation Club** (May, 2018 - April, 2019)
  - Planning **Design Thinking based competitions** involving M.Tech and PhD researchers to shoot-up tech-innovation culture
  - Conceptualising **ASTI**(Arts, Science, Technology, and Innovation) weekend projects with inter-college collaboration
  - Conceptualized '**Brainstorming work-spaces**' for nurturing creative ideas and providing ambient meeting places
- **Member, Mess Committee** (May, 2018 - April, 2019) :
  - Elected from amongst 600+ member residents; Reduced the leftover food wastage in mess by 15 kg per meal



# PRACHI GUPTA



## ACADEMIC DETAILS

| Year | Degree / Board                       | Institute                             | GPA / Marks(%) |
|------|--------------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Textile Engineering        | Indian Institute of Technology, Delhi | 8.569          |
| 2015 | Central Board of Secondary Education | Holy Child Sr. Sec. School, New Delhi | 97%            |
| 2013 | Central Board of Secondary Education | Holy Child Sr. Sec. School, New Delhi | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- **IITD Semester Merit Award:** Conferred for being among the **top 7%** students in the Department of Textile Technology (2018)
- **Undergraduate Teaching Assistantship:** Awarded scholarship, **1 of 2** selected from a batch of **100+** students (2018)
- **Minor Degree, Business Management:** Completed 12 credits with **GPA 9.5** from Department of Management Studies (2015-18)
- **Intl. Publication:** Gupta, P. et al., '*Financial appraisal of automobile giants in India*', International Journal of Applied Research (2018)
- **UK's Global Thinkers Forum:** **1 of 2** from India to qualify through a **2-tier** selection procedure to deliberate over global issues (2018)
- **Merit Certificate from CBSE:** Performance within **top 0.1%** of the candidates in Chemistry; School science **topper** (2015)

## INTERNSHIPS

- **PricewaterhouseCoopers (PwC) Private Limited, Gurgaon** (May, 2018 - July, 2018): *Advisory Business Unit*  
Acted as an intermediary between GoI and implementing agencies for **skill development** of 1 million unemployed youth
  - Drafted a **framework** to assess the infrastructure facilities of training centers, feedback of trainees and quality of assessors
  - Profiled 16+ states to analyse the current status of skill development activities and predict future employment opportunities
  - Analysed portfolio of manufacturing programmes, including **effectiveness and potential gaps**, for international funding agencies*Received Letter of Recommendation from Associate Director, PwC for exemplary performance during the internship*
- **Ecole Polytechnique Federale de Lausanne (EPFL), Switzerland** (May, 2017 - July, 2017): *Department of Chemistry*
  - Identified carbon nanotubes as a **flexible and cost effective alternative** for preparation of inks for large scale inkjet printing
  - Maximised **stability** of carbonaceous inks by formulating 100+ solutions, used varied combination of chemicals with CNTs
  - Optimised parameters to print **300+** graphene electrodes, performed optical and electrochemical characterisation*Awarded scholarship worth CHF 3600 by EPFL; Received Letter of Recommendation from Head of the Laboratory*

## POSITIONS OF RESPONSIBILITY

- **Marketing Coordinator, Rendezvous** (April, 2018 - Present): *Led a 2-tier team of 80+ executives to raise finances*
  - Activated **new streams for sponsorship**, pioneered sectors like education, construction which contributed **5% to the budget**
  - Curated partnerships with **3 embassies** to foster cultural exchange; launched a campaign to achieve **2-fold sponsor visibility**
  - Incorporated 4P framework based pitching to **increase company response rate by 100%** and enhance team efficiency
  - Established a **centralised database** of branding avenues being updated real time to ensure **horizontal communication**
- **Overall Coordinator, Sportech** (Oct, 2017 - Feb, 2018): *Led a 3-tier team of coordinators and executives*
  - Facilitated coordination between **7 departments**, witnessed participation from **45 colleges, 160 teams, 2000** sportspersons
  - Devised novel **sector specific marketing strategies**, implemented integrated benefit model over rigid sponsorship slabs
  - Collaborated with **ITDAA** and **Fitso** to conceptualise and organise the **1st Edition of IITD Alumni Run** in the campus
  - Formulated a **4-month PAN-India** media plan by successfully collaborating with **15+** online and offline media partners
- **Publicity Coordinator, Speranza** (July, 2017 - Sept, 2017) : *Led a 2-tier team of 30+ executives to increase outreach*
  - Revamped mass publicity campaigns to achieve **100% YoY increment** in average outreach across social media platforms
  - Conceptualised pre-fest campaigns and devised strategies to **raise participation** of IIT faculty, students and alumni

## EXTRA CURRICULAR ACTIVITIES

- **Dramatics:** *Directed, scripted or acted in 15+ stage plays at professional, national and institute level over 3 years*
    - Director, Inter-IIT Cultural Meet **National** Stage Play Competition, **Dramatics Runner Up** and **Overall Champions** (2017)
    - Lead Actor, Rendezvous IITD **National** Stage Play Competition, finished in **top 6 among 100+** participating colleges (2016)
    - Actor and Script Editor, Annual IIT Delhi Stage Play Production, awarded **best performance** among 9 BRCA clubs (2016)
    - Actor and Director, Inter-Hostel Stage Play Competition, represented Kailash Hostel for **3 consecutive years** (2016-18)
  - **Business Presentations and Case Studies:** *Represented IITD in 10+ international and national level competitions*
    - Runner-Up, Intellectual Maniacs Case, SSCBS; **Finalist**, SBG, organised in partnership with McKinsey & Company (2018)
    - Runner-Up, Caso Dominor, Hansraj College; **Finalist**, Strategem Case Study, Delhi Technological University (2018)
    - Finalist, Best Manager, Techkriti'18, IIT Kanpur; **Finalist**, Consilium Case, Netaji Subhash Institute of Technology (2018)
  - **Welfare Initiatives:** *Involved with diversified clubs and societies for benefit of student community over 3 years*
    - VIDYA: Managed **25+** volunteers to teach **60+** underprivileged kids; designed a **new curriculum** for interactive teaching (2016)
    - CAIC: Created a **centralised repository** for sharing academic resources; ensured **quick resolution** of student issues (2017)
    - SAC: Integral role in improving facilities at IITD Hospital; initiated creation of **Board for Technical Activities** at IITD (2018)
- Awarded Outstanding Contribution to Student Affairs by the Director, IIT Delhi for remarkable work and achievements*



# RAGHAV JAIN

## ACADEMIC DETAILS

| Year | Degree / Board                              | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech in Textile Engineering               | Indian Institute of Technology, Delhi | 8.312          |
| 2015 | Central Board of Secondary Education (CBSE) | The Mother's International School     | 94.6%          |
| 2013 | Central Board of Secondary Education (CBSE) | The Mother's International School     | 9.8/10         |

## SCHOLASTIC ACHIEVEMENTS

- **Department Rank 10:** Achieved through continuous academic effort over last 6 semesters in a **batch size of 102** ('18)
- **International Mathematics Olympiad:** Secured International Rank **285** and was awarded with a **Bronze Medal** ('14)
- **Problem Solving Assessment:** Secured **top 1%** in Quantitative Reasoning and Language, organised by CBSE ('14)
- **Inter-School Mathematics Talent Examination:** Secured **3rd position** across all participants, org. by Ramanujan Society ('14)
- **International Mathematics Olympiad:** Among **international top 1%** out of 20,000+ participants and awarded a **Gold Medal** ('13)
- **National Science Olympiad:** Secured **All India Rank 12** among 60,000+ participants and awarded with a **Gold Medal** ('09)

## INTERNSHIPS

- **Xane AI** | Chatbot for Employee Engagement (May, 2018 - Jul, 2018) : *Software Developer*  
*Core product development and design, database management and development of Application Programming Interfaces (API)*  
 ◦ **Reduced testing time** by automating test scripts; **Improved code robustness** through rigorous testing and debugging  
 ◦ **Quantified genuineness of feedback** by assessing multiple parameters, computed analytical model using Multiple Linear Regression  
 ◦ Conceived and wrote back-end logic and database queries for numerous APIs; **Integrated new product features** and services  
*Received Pre-Placement Offer (PPO) by Xane, Best AI/ML start-up award winner at Startup Expo org. by NASSCOM*
- **SM Carapace Armor, SMPP Pvt. Ltd** | Pioneer in Defence Technologies (May, 2017 - Jul, 2017) : *Research Intern*  
 ◦ Achieved **12% decrement in time** reduction of **error to <1%** by innovating technique to gauge number of layers in SAPs  
 ◦ **Reduced wastage of Kevlar by 3%** by optimizing Kevlar cutting process, saving **Rs.17,220/batch** (Rs.205/jacket)  
*Received Letter of Recommendation from Executive Director of SM Carapace, National Award Winner for Defence Indigenization*

## POSITIONS OF RESPONSIBILITY

- **Director, Institute Choreography Society, Dance Club, BRCA** (Apr, 2017 - Apr, 2018) :  
 ◦ Spearheaded institute dance team of **25+** to secure **1st position in Rendezvous'17** with the theme *Rashmirathi (national)*  
 ◦ Led the team to a **podium finish** at Mood Indigo'17, **Asia's largest** cultural festival and increased inter-college participation  
 ◦ Revamped publicity of society by **launch on social media** and conducting **first ever** dance workshop with **65+** participants  
 ◦ Conceptualized the performance, taught the team, managed logistics, props and costumes within a shoestring budget
- **Hostel Dance Club Representative** (Aug, 2016 - Apr, 2017) :  
 ◦ **Co-administered** pro-nite **Kaleidoscope, Rendezvous'16**; Publicized the fest and managed all dance events  
 ◦ Pitched various colleges, coordinated with team presidents, judges and equipment providers; increased annual club budget  
 ◦ Organized multiple workshops nurturing freshers' talent, **first time** paper dance event and flash mob enhancing institute culture
- **Hospitality Coordinator, Delhi Poetry Festival** (Jan, 2018 - Feb, 2018) :  
 ◦ Coordinated with artists, managed travel, accommodation, refreshments, catered to all needs as their person of contact  
 ◦ Contacted and finalized vendors for prizes and token of appreciations to be given during the event within set budget

## EXTRA CURRICULAR ACTIVITIES

- **Dance:** Active member of dance club for 3+ years, performing in all inter hostel and multiple inter college dance competitions  
 ◦ **Winners**, Thematic Choreography Dance **Rendezvous'16** among 4 finalists, theme *Unsung Heroes (National)* ('16)  
 ◦ **Runner's up**, led the team to **IITD's best ever finish** in Mood Indigo'16, Asia's largest cultural festival (**National**) ('16)  
 ◦ **Institute Dance Production**, Choreographed and taught western dance showcasing institute's best dance talent ('17)
- **Community Service programme 'Reaching Out':** Tutored underprivileged children at The Mother's International School ('14)
- **Campus Team Member, The Bites and Beer Fest:** Raised publicity of the event held at Pacific Mall, Delhi ('17)

## PROJECTS

- **Data Structures and Algorithms** (Jan, 2018 - May, 2018) : *Under supervision of Prof. Saroj Kaushik*  
 ◦ **Market Data Publisher:** Executed High Frequency Trading ideology to broadcast stock exchange data using AVL Trees  
 ◦ **Path Optimization:** Applied Prim's and Dijkstra's algorithms to find the Minimum Spanning Tree and the shortest path on a weighted graph  
 ◦ **Search Engine:** Implemented pagerank to maintain the connectivity and relevance of web pages through a web matrix
- **Parameter Optimization for Efficiency of Filtration** (May, 2018 - Present) : *Under supervision of Prof. Dipayan Das*  
 ◦ Using **Image Recognition**, analyzing oil droplet uniformity parameters, correlating them to efficiency of filtration by **regression model**
- **Applied Statistics** (Jul, 2017 - Nov, 2017) : *Under supervision of Prof. Dipayan Das*  
 ◦ Performed **descriptive analysis** of experimental data through ANOVA analysis, test of hypothesis and control charts



# RAJNEESH KASWAN



## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Textile Engineering | Indian Institute of Technology, Delhi | 6.358          |
| 2014 | RBSE                          | M.P.S. Taranagar, Churu               | 84.00%         |
| 2012 | RBSE                          | S.V.M. sec. school, Lalasar, Churu    | 77.33%         |

## SCHOLASTIC ACHIEVEMENTS

- Scholarship for Higher Education:** Got selected for a scholarship for higher education under Innovation In Science Pursuit for Inspired Research (INSPIRE) by virtue of performance within **top 1%** of the Rajasthan board at class XII level.

## INTERNSHIPS

- Padmini VNA, Gurgoan/R&D division** (May,2017 - July,2017) : *Cooling Jacket*
  - **Designed and Engineered** a flexible wearable jacket with the copper plate and copper capillary with maximum DoF.
  - **Launched** 3 prototypes of jacket myself (2 for cool water flow +1 for coolant liquid flow) and tested with customer need.
  - **Demonstrated** in market research for a newly developed product and estimated customer review.

## PROJECTS

- Cooling jacket (R. Chattpadhyay)** (June,2018 - present) :
  - **Incorporated** cool air by **Peltier effect** with the heat sink, exhaust fan, Housing of thermal insulator and rooting tube.
  - **Devising** cool air by using **liquid nitrogen** in a conductive container and estimation of the rate of insulation of liquid N2
  - Developing **heat reflector jacket** using layers and aluminized or silver coated fabric with inserting cool air in the jacket.
- Airbag Belt (Bipin Kumar)** (May,2018 - present) :
  - **Conceptualized** and **fabricated** an innovative product 'Airbag Belt'; for hip protection. Made our first **prototype**.
  - **Redesigning** and **Centralizing** all concept of airbag inflator to a new inflator for our product with more efficiency.
  - Implemented N2 gas by chemical reaction of Sodium azide and Potassium nitrate.
- Kinematic and Dynamic Analysis of Spinning Wheel (Prof. R. Chattpadhyay)** (July 2018 - Present) :
  - Developing a mathematical model for kinematic chain of parallel 6 drive spinning wheel with true dimensions.
  - Installing solar panel system for new spinning wheel (**charkha**)
- MCP101 Course project(Sunil Jha)** (July,15 - November,15) :
  - Constructed a multipurpose fold-able chair + desk.

## POSITIONS OF RESPONSIBILITY

- Mentor, SMP** (April, 2017 - April, 2018) :
  - Guided 1st-year (4-7)students to ensure a smooth transition, to make comfort and stress-free them into IIT.
  - The mentors along with SMP coordinators take up the problems of their mentees at appropriate forums.
  - Performed activities with the mentees under the guidance of SMP team and professional counselors to enhance interaction, their self-awareness, and experience sharing.
  - Assisted the coordinators in smooth functioning of exhibits, activities and sessions related to academics, Counselling and Mentorship during Orientation 2017.
  - Assisted the coordinators in collecting information about the different aspects of freshers' life via surveys.
- Language mentor, SMP** (April, 2017 - April, 2018): Mentoring as language mentor for Hindi medium students.

## COURSES DONE

Profe. Ethics & Social Resp., Language & Writing Skill, Intr.to Material Sc. & Engg., Introduction To Sociology, Modern Indian Fiction In Translation, Applied Statistics For Textile Engineers, Theatre Of The Absurd, Rural Industrialisation Polices Programmes And Case, Seminar Course-v, Product Design And Development

## TECHNICAL SKILLS

- Programming Language & Software** - Basic C++, Latex, MS office, Minitab, Matlab, Autodesk Inventor,

## EXTRA CURRICULAR ACTIVITIES

- Best cadet award/ NCC** (26 January 2016):- Got best cadet award in 50 members of institute team of NCC
- Volunteer** in Fourth Boeing IIT-National Aeromodelling Competition FINALS, April 2017.
- Athletics** :(2016-17):- **3rd position** in 400-meter race of inter-hostel.- **2nd position** in 110-meter hurdle race of inter-hostel.- **3rd position** in 100-meter race of inter-hostel.
- directed and acted** in inter-hostel street play competition, on awareness topic "Mardangi Akhir Kyu?. (2015-16)
- Worked for gym room maintenance in House Maintenance and Cleanliness Committee. (2017-18)



# RAKESH KUMAR



## ACADEMIC DETAILS

| Year | Degree / Board                        | Institute   | GPA / Marks(%)  |
|------|---------------------------------------|---|-----------------|
| ---  | B.Tech in Textile Engineering<br>RBSE | Indian Institute of Technology, Delhi<br>Aastha Academy Senior Secondary School | 6.478<br>82.00% |
| 2015 | RBSE                                  | INDIAN PUBLIC SCHOOL  | 78.50%          |
| 2013 |                                       |   |                 |

## INTERNSHIPS

- **Careers360 ,Hauz Khas New Delhi/Product Team** (May,2017-July,2017) :*Product Operations*
  - Formulated and curated data for the creation of AI
  - Consulted by the company to user review final e-learning product in terms of quality and learn-ability
  - Collaborated with Research, Marketing and Tech team to create online academic programs for students
  - Strategised the launch of product knockout program, a career counselling initiative aimed to educate 1+ lakhs students

## PROJECTS

- **Hybrid bio-composites for automotive dashboard panel application(Prof. Dipayan Das)(Present)**
  - Assessing Storage modulus, Loss modulus, thermal stability, Tan delta of different types of composites through DMA and TGA.
  - Evaluating different stats of more than one combination of textile
- **Scissor Lift (Sunil Jha)** (July, 2015 - Nov, 2015) :
  - Designed and Fabricated a Scissor Lift that can help reach works at various heights
  - Advocated user review to accelerate perform routine maintenance, and for upgraded form.
  - Designed 3D model in Autodesk and worked in various Manufacturing workshops
- **Image Morphing code (Prof. Preeti R. Panda)** (April,2016 - April, 2016)
- **Fabricated V-22 Osprey( Amit Gupta)** :
  - This Design gives us the vertical performance of a Bicopter along with the speed and range of a fixed wing aircraft.
  - Manufacturing aircraft using tiltrotor technique

## COURSES DONE

Engineering Mechanics, Engg. Visualization & Comm., Product Realization By Manf., Linear Algebra & Diffe. Equa., Intro. To Computer Science, Calculus, Intr.to Material Sc. & Engg., Experimental Methods, Mechanics Of Solids And Fluids, Structure & Physical Propertie, Numerical Methods In Chemical, Yarn Manufacture Ii, Fabric Manufacture Ii, Tech. Of Textile Coloration, Yarn Manufacture Lab Ii, Fabric Manufacture Lab Ii, Tech Of Textile Coloration Lab, Evaluation Of Textile Material, Theory Of Textile Structures, Speciality Yarns And Fabrics, Medical Textiles, Design Of Exper. & Stat. Tech.

## TECHNICAL SKILLS

- **Programming Languages:** C/C++, HTML, CSS, Latex, PHP, MySQL
- **Other Tools & Software:** MS-Office, Blender(Intermediate), Autodesk Inventor, Matlab, Adobe Photoshop CS6

## POSITIONS OF RESPONSIBILITY

- **Executive of Quad division of Aeromodelling Club** (Jan,2017- Sept, 2017)
  - Built and flew 2 Quad-Copters using KK 2.1.5 flight controller board.

## EXTRA CURRICULAR ACTIVITIES

- **Aeromodelling club :**
  - Represented IIT Delhi in the Boeing National Aeromodelling Competition-2016 held at IIT Bombay.
  - Designed and manufactured a 3D radio-controlled plane
  - Organized RC Aircraft Competition as a part of technical fest of IIT Delhi -Tryst 2017
- **Inter-Hostel Hockey:**
  - Served as forward player of Girnar Hostel Hockey Team,during the years 2015-2016.
  - Played four league match
- **Team head in security to organise largest cultural fest of north India (RDV 2015-16)**



# RAM RAJ SAINI

## ACADEMIC DETAILS

| Year | Degree / Board                        | Institute  | GPA / Marks(%)  |
|------|---------------------------------------|--|-----------------|
| ---  | B.Tech in Textile Engineering<br>RBSE | Indian Institute of Technology, Delhi<br>VIJAY ADARSH VIDHYA MANDIR<br>SR SEC SCHOOL | 5.676<br>96.17% |
| 2013 | RBSE                                  | AASTHA ACADEMY SR SEC<br>SCHOOL  | 84.6%           |
| 2015 |                                       |  |                 |

## COURSES DONE

Engineering Mechanics, Introduction To Chemistry, Chemistry Laboratory, Engg. Visualization & Comm., Product Realization By Manf., Linear Algebra & Diffe. Equa., Profe. Ethics & Social Resp., Introduction To Engineering, Language & Writing Skill, Intro. To Computer Science, Intro. To Electrical Engg., Calculus, Profe. Ethics &social Resp.-2, Language & Writing Skill-2, Electromagnetic Waves&qua.mec., Physics Laboratory, Intr.to Material Sc. & Engg., Experimental Methods, Environmental Science, Nss, Textile Fibres, Polymer Chemistry, Introduction To Textile Tech., Mechanics Of Solids And Fluids, Intro. To Biology For Engineer, Structure & Physical Propertie, Yarn Manufacture I, Fabric Manufacture I, Tech. Of Text. Preparation & F, Yarn Manufacture Laboratoryi, Fabric Manufacture Lab. - I, Tech. Of Tex. Pre. & Fin. Lab., Numerical Methods In Chemical, Yarn Manufacture II, Fabric Manufacture II, Tech. Of Textile Coloration, Yarn Manufacture Lab II, Fabric Manufacture Lab II, Tech Of Textile Coloration Lab, Solar Photovoltaic Devices And Systems, Fundamentals Of Language Sciences, Minor Design Project - I, Evaluation Of Textile Material, Theory Of Textile Structures, Speciality Yarns And Fabrics, Medical Textiles, Design Of Exper. & Stat. Tech., Manufactured Fibre Techno. Lab, Evaluation Of Textiles Lab

## QUALIFYING EXAMS

- Joint Entrance Examination (JEE) Advanced Rank: 2087 (OB)

## PROJECTS

- Mechanical Workshop Project (Prof Sunil Jha) (JULY, 2015 - OCTOBER, 2015) :
  - Designed a expandable table which can be folded when not in use
- Agricultural waste for filtration (Prof. Samrat Mukhopadhyay) (July 2018 - November, 2018)(ongoing project)
- NEN Project (Bhagwan Mahaveer Cancer Hospital) (July 2018 - July 2018) :
  - talked to the cancer patients for their survey

## TECHNICAL SKILLS

- Programming Language:C, C++
- Software: Autocad, Excel



# RAMESH YADAV



## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Textile Engineering | Indian Institute of Technology, Delhi | 6.401          |
| 2014 | RBSE                          | Aastha senior secondary school,sikar  | 77             |
| 2012 | RBSE                          | Shekhawati public school,sikar        | 71.83          |

## COURSES DONE

Engineering Mechanics, Introduction To Chemistry, Linear Algebra & Diffe. Equa., Intro. To Computer Science, Calculus, Electromagnetic Waves&qua.mec., Intr.to Material Sc. & Engg., Experimental Methods, Electromagnetic Waves&qua.mec., Applied Statistics For Textile Engineers, Intro. To Computer Science, Advertising And Sales Promotion Management

## TECHNICAL SKILLS

- Minitab, Matlab, LaTeX, Autodesk, MS Word, MS PowerPoint, MS excel, Adobe Photoshop, CorelDRAW, SEO

## PUBLICATIONS

- Multifunctional colouration of Linen fabric using Henna**, Sustainable Chemistry and Pharmacy, 2018  
- Research on linen fabric with Henna Dye and design a UV protective ,Antibacterial ,Antioxidant(Henna) shirt,Tensile strength of linen fabric increase by 48.73% due to H-bonding between Henna and linen Fabric

## INTERNSHIPS

- Ad City Mart** (May,2018- July,2018) : *Digital Marketing*  
- **Search Engine Optimization (SEO)**: Helped increasing the google page ranking of company's site by Affiliate Marketing of product (ceramic coating), Google AdWord, Blogging, backlinking, social media marketing
- AMBIVAN** (June,2017 -July,2017) : *Indian Road Safety Campaign*  
- Worked with technical team to design sensor & APP for accident tracking and provide Quick Automatic Ambulance service,monitoring of bed availability in hospitals,collect data of free ambulance providers
- **Social Endeavours**: Conducted extensive survey to analyse data of **72 hospitals** for an **automatic ambulance service**

## PROJECTS

- Development of Multifunctional Linen Garment using Henna Dye (Prof. Javed sheikh)** (May,2016 -Oct,2016)  
- Henna(green) dye on linen fabric with copper sulphate as a mordent ,Natural dye prevent the environmental problems  
- **Antibacterial** property of Henna on linen due to copper sulphate generate Neno particals ,  
- **UV protective** fabric due to Henna and cooling material ,**Antioxidant** property of Henna
- Expandable Table (Prof. Sunil Jha)** (Sept,2015 - Nov,2015)  
- Innovated the mechanism for an expandable table, Used tyres for smooth movement of base to help dinning space issues
- Electronic Textiles (Prof. Bipin kumar )** (June,2018 - present )  
- **Development of Triboelectric Nanogenerator (TENG)** fabric for energy harvesting and integrates the supercapacitor (SC) yarns as energy-storing fabrics,designed a stretchable fabric to harvest energy of human motions

## EXTRA CURRICULAR ACTIVITIES

- Inter College Level** : Represented IIT Delhi in Athletics participating in 2 tournaments  
- Winner, **Gold Medal** with Institute Athletics Team, **51st Inter IIT** Sports Meet held at **IIT Kanpur** [2016]  
- Winner, **Gold Medal** with Institute Athletics Team, **Sportech**, annual sports festival of IIT Delhi [2017]
- Institute Level** : Represented hostel in sports general championship, BSA tournaments  
- Winner, **Gold Medal** in 4\*400m , inter Hostel Athletics Championship [2018]
- Awarded **Significant Contribution to Sports Activities** for exemplary performance in Hostel General Championship
- Awarded **Best Athlete** amongst all 2015 entry students  
- **Gold Medal** in 1500m ,**Gold Medal** in 400m ,**Gold Medal** in 110m Hurdle

## POSITIONS OF RESPONSIBILITY

- Core Team Member**, Mahsheel Hostel fest (Feb,2018)  
- Built & led a team to manage registrations & infrastructure of all the events which included Poker Night, Treasure hunt, Shayari night, Face painting, quizzes, LAN Gaming, Bon Fire Night, Karaoke, Fresher's Talent Hunt.  
- Planned, strategiesed and supervised the budget, publicity, decoration, event structure, judging criteria and prize distributionMade constructive efforts for involvement of freshers and Post Graduate students



# RAVINDRA PINDEL



## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Textile Engineering | Indian Institute of Technology, Delhi | 7.825          |
| 2014 | RBSE                          | Prince School Sikar                   | 83.20%         |
| 2012 | RBSE                          | DDS Gurukul Nagaur                    | 77.17%         |

## QUALIFYING EXAMS

- Joint Entrance Examination (JEE) Advanced Rank: 2027 (OB)

## SCHOLASTIC ACHIEVEMENTS

- MHRD Scholarship:** Awarded for academic excellence in undergraduate program, IITD by Goverment of India (2018)
- Scholarship for Higher Education (2014):** Under INSPIRE scheme Distributed by Department of Science and Technology to top 1% of 12th standard board science students.

## COURSES DONE

Intro. To Computer Science, Calculus, Engg. Visualization & Comm., Product Realization By Manf., Linear Algebra & Diffe. Equa., Mechanics Of Solids And Fluids, Intro. To Computer Science, Marketing Management, Probability & Stochastic Pro., Design Of Exper. & Stat. Tech.

## TECHNICAL SKILLS

- C, Python, Matlab, Autodesk, CorelDRAW, Latex, MS word, MS Excel, MS PowerPoint

## INTERNSHIPS

- Product Development, Careers360, New Delhi (May, 2018 - July, 2018) :**
  - Curated data for the creation of **Artificial Intelligence** and Worked on **CorelDRAW** for designing the layout of product
  - Consulted by the company to review final **e-learning** product in terms of its **quality and learnability**
  - Coordinated with research, marketing and tech team to create online academic programs for students
  - Strategised the launch of product knockout program, a career counselling initiative aimed to educate **1+ lakhs** students

## PROJECTS

- Detection of Nitro-Benzene(concentration in ppm) using CV test : (Md. S. Wazed Ali) (May 2017 - May 2018):**
  - Formulated the nanoparticle synthesis of **Zr-MSM** and electro-coated graphite electrode with **Zr-MSM & PANI**
  - Performed **Cyclic Voltammetric** tests with different concentration(ppm) of NB and heavy metal ion.
- Marketing of Food Trucks (Prof. Mahim Sagar) (Feb, 2018 - April, 2018) : (MSL303)**
  - SWOT & PEST analysis of food truck industry and Analysed the market trend in India.
  - Performed **Exploratory research, Analysed and developed Marketing strategy** for the food truck
- Camera crane (Dr. D. Ravi Kumar) (Feb, 2016 - April, 2016) :**
  - Under MCP100 developed an Easy storage and transportation light weight and adjustable camera crane
- 3D-View and Structural Mechanics of Yarn (Prof. Dr. S. M. Ishaque) (July, Year - Present) : (BTP)**
  - Testifying New machine to view 3D structure of yarn and mechanical behavior of yarn with changing of yarn structure

## POSITIONS OF RESPONSIBILITY

- Infrastructure Coordinator, Rendezvous 2018, IIT Delhi (Oct, 2017 - Present):**
  - Built and Lead a multi-tier team to manage all infrastructure requirements: Selected through rigorous 2 stage process
  - Formulated extensive scheduling for 100+ events spanning over 4 days to facilitate management of 20 venues
  - Administered the tender process; Ensured coordination with multiple vendors to optimize resource allocation
- Core Team member, Mahsheed (Feb, 2018) :**
  - Built & led a team to manage **registrations & infrastructure** of all events which include Fresher's Talent Hunt, Poker Night, Shayari Night, Treasure Hunt, Face painting, quizzes, LAN Gaming, Bon Fire Night.
  - Planned, strategies and supervised the budget, publicity, Decoration, event structure, Judging criteria and prize distribution
  - Made constructive effort for involvement of freshers and Post Graduate Students

## EXTRA CURRICULAR ACTIVITIES

- (Activity Head, Infrastructure, Rendezvous 2017, IIT Delhi (Aug, 2017 - Oct, 2017):**
  - Facilitated venue management of 100+ events; negotiated with vendors to provide facilities in limited budget



# REEWA GAUTAM



## ACADEMIC DETAILS

| Year | Degree / Board                             | Institute   | GPA / Marks(%)  |
|------|--|---|-----------------|
| 2014 | B.Tech in Textile Engineering<br>U.P Board | Indian Institute of Technology, Delhi<br>Gyan Sthaly Public Inter college,<br>Jhansi(U.P) | 6.242<br>86.60% |
|      | U.P Board                                  | Gyan Sthaly Public Inter college,<br>Jhansi(U.P)  | 90.00%          |

## COURSES DONE

Intro. To Computer Science, Intro. To Electrical Engg., Calculus, Electromagnetic Waves&qua.mec., Engineering Mechanics, Introduction To Chemistry, Engg. Visualization & Comm., Intr.to Material Sc. & Engg., Experimental Methods, Environment; Development And Society, Intro. To Biology For Engineer, Mechanics Of Solids And Fluids, Environmental Science, Fundamentals Of Language Sciences, Workshop In Creative Writing, Physical And Dynamical Oceanography, Minor Design Project - I, High-dimensional Biology, Human Values And Technology

## INDUSTRIAL TRAINING

**Arvind Limited Ahmedabad**, Santej(21st May 2018 - 12th July 2018): **Department of Shirting Business Division** work with **Continuous Improvement Department** on **Warping Remnant Waste Analysis** under the guidance of **Rajashri Ghosh(Head - Technical)** and throughout help and support by supervisor **Bidyut Biswas(M2)**

### Achievements:

- Gravity analysis of data and its reason to report the critical issues happening in the warping zone to further avoid the waste
- Detected up to 5 number of the faulty winding machine to minimize the waste generating in the warping region
- Grasp technical skills of downgrading the fabric while attending meeting with special expertise of various division
- Learn 10+ different methods of Quality Assurance of fabric in a shirting department by spending time in a quality lab
- Rundown different departments(Knitting, spinning, designing and dyeing) in the plant with a knowledgeable person

## EXTRA CURRICULAR ACTIVITIES

### • Cultural Fest(Rendezvous):

- Decoration Activity Head, BRCA/Rendezvous(October 2017): Guide Team Heads and give different ideas for the fest
- Event Activity Head, BRCA/Rendezvous(October 2016): Manage and gathered the crowd for the games consist of prizes, sponsored by the fest sponsors during 4 days of the fest and parallelly doing publicity for the sponsors by events

### • Fine Art Club, IIT Delhi:

- First position, Sigil Wall Painting competition across 13 hostels with an authorized certificate by IIT Delhi, year 2017-18
- Participated in Oil Painting competition on the theme of 'Creation' among 13 hostels, year 2016-17
- Participated in Clay Modeling competition in the year 2016 and give guidance to juniors in the year 2017
- Participated in Wall Painting and Tile Painting competition among 13 hostels in the year 2015

## POSITIONS OF RESPONSIBILITY

### Decoration Coordinator, BSP(Board for student publication)/Literati (2017):

- Independently Handled and Manage overall look during 3 days of the festival in terms of decoration and aesthetics, which turns up into one of the best years of the fest among the crowd coming from the other colleges in a successful and effective way. Huge footfall in festival compared to previous years

## PROJECTS

- Currently doing a project on the Antibacterial/Antimicrobial food packaging by the use of nanotechnology under Prof. Bhuvanesh Gupta, President: Asian Polymer Association
- Done seminar project in Colour Changing Fabric based on Photonic Band Gaps theory work on the phenomenon of total internal reflection inside the optical fibre, under the supervision of Prof. Bipin Kumar (Nov 2017)
  - The project reflects the future image of fabric, shoes and decoratives manufacturing in the way of designing and aesthetic
  - This colour changing technique is also used in a bridge string to know the strain acting on the strings holding a bridge
- Manufactured Multi-Purpose Wheel Chair under the guidance of Prof. P.V.Madushudhan Rao (Jan 2016 - May 2016):
  - Product realization through manufacturing, constructed prototype of the chair which can sustain weight up to 100kg
  - The project involves Carpentry, Sheet Metalling, Machine Shop, Engineering Drawing and Autodesk Inventor

## TECHNICAL SKILLS

- C language(simple programming), Advanced Microsoft Excel, Advanced Microsoft Word, AutoCAD at the Basic level
- Impressive Skills: - Poetry writing, Shayari writing, painting, taking about Science Facts, Creative and Imaginative skills



# SAHIL KUMAR KARGWAL



## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Textile Engineering | Indian Institute of Technology, Delhi | 8.083          |
| 2015 | CBSE                          | Titiksha Public School                | 95.2%          |
| 2013 | CBSE                          | Titiksha Public School                | 10             |

## SCHOLASTIC ACHIEVEMENTS

- **Student Exchange** - *École des mines d'Alès (IMT Ales)*, France. (August, 2017-December, 2017) . (2017)
  - Among the **top 3** students selected based on overall performance to represent IIT Delhi at IMT Alès, France. (2017)
  - Completed courses in **International Business Development and Mechatronics**, securing a **GPA of 3.31/4**. (2017)
- **Summer Undergraduate Research Award (SURA)**: Conferred by Industrial Research & Development Unit, IITD. (2017)
  - **Only project** from Textile Department to receive **SURA award** from IRD unit, received funding of **INR 25000**. (2018)
- **MIT Hacking Dermatology, Boston, USA**: Winner Dermatology Hackathon, received funding of **USD 5000**. (2018)
- 1 of 48 students selected globally for the **MIT-IIT Make in India Bootcamp** organised by Techtop India Foundation. (2017)
- **SOF Olympiad**: Secured international rank 383 in 2012 and 71 state rank in 2013 at International Maths Olympiad. (2012)

## INTERNSHIPS

- **Wearable BioSensing Lab, URI, USA** (May, 2018 - July, 2018): *Smart Textile based Pressure Sensing*
  - Developed **pressure sensitive insoles** for healthcare tele-monitoring and a **10 parameter**-sensor rating system.
  - Submitted paper in **IEEE Conference** and presented research at **NIH mHealth Technology showcase**, Washington DC.
  - Fabricated an exercise monitoring pressure sensitive vest using smart textiles for **Core Mechanics (a healthcare startup)**. *Received Letter of Recommendation from Professor for successful discharge of responsibility and exceptional work.*
- **Smartivity Inc, New Delhi** (May, 2016): *Digital Marketing of S.T.E.M. toys using Google AdWords*
  - Formulated and executed a **3 week marketing campaign** via 6 different AdWords campaigns, Budget **Rs 18000**.
  - Captured a total of **1,079 clicks** in search network out of 36,868 impressions, registering a remarkable **CTR of 2.93%**.
  - Generated a total **revenue of Rs 35000** through all different Adwords campaign and boosted up company's sales by **7 %**.

## PROJECTS

- **HyJamas™: Sleepwear for Eczema patients** (June, 2018 - Present)- *Novel fabric technology for constant skin hydration*
  - Funded **\$5000** by Leo Pharma and mentored by **MIT Hacking Medicine and Hacking medicine institute**.
  - Developing a **skin hydrating and antimicrobial sleepwear** to tackle skin dryness and sleep interference in eczema patients.
  - Drastically reduced pre-sleep chore time by **9 times**, developed a proprietary technology **Pinaki SAP** for hydration.
- **Prerit Therapy, MIT Sandbox Program** (Nov, 2017 - May, 2018): *Taking Occupational therapy to the bottom of pyramid*
  - Developed a **Rs 2000** game-based service to improve **patient monitoring** and accessibility to hand based rehabilitation.
  - Project selected under **MIT Sandbox program, USA** and received mentorship support and a **funding of \$2500**.
  - Devised a way to detect the **hand gestures** to lower drop out rates and improve motor coordination via visual feedback.
- **FEMIA Paris, International Business Development Course** (Aug, 2017 - Oct, 2017): *Indian agro-processing Sector*
  - Carried out **Country study and market analysis** of Indian agro-processing Sector, prepared a consultancy report.
  - Forecasted demand, collected and filtered **150/800** potential customer contacts using a **three layer filter algorithm**.
  - Developed expansion model, identifying **42 Mega food parks**, did seasonal and state-wise characterisation of Indian crops.

## EXTRA CURRICULAR ACTIVITIES

- **Dramatics Club: As Club Representative** led hostel in all inter hostel dramatics events
  - **Winner**, Inter-hostel Street Play competition: Directed and performed play "Kyunki Ma anath hoon", led a **team of 25**.
  - **Runners-Up**, Inter-hostel Stage Play competition: Directed and scripted "Uljan", managed logistics and production.
  - **Rendezvous 2016**: As activity head of dramatics events assisted secretary to manage and conceptualise events.
- **Adjudged Runners-up, B-Plan Competition**: *International Conference of RuTAG, New Delhi, 2018- Tulsi mala beads*
  - Identified niche international market worth **USD 15000**, proposed business model to increase profit margins by **700%**.
  - Awarded prizes worth **€ 150**, devised market outreach model, complemented by judges as **most innovative solution**.
- **Javelin Thrower: Sportech 2017, IIT Delhi**- Represented IIT Delhi as Javelin thrower, Athletics team in Sportech 2017.
- **Hacking Health Milano**: Design thinking workshop, designed Medical Dispensing System-"RAAHAT for cognitively impaired".
- **NCC Annual training camp, 2013**: Passed the Certificate "A" examination under the authority of Ministry of Defence, Gol.

## POSITIONS OF RESPONSIBILITY

- **Convenor, Textile Department** (April, 2018 - Present)
  - Coordinated with professors to **plan** course schedule and **guided** students facing difficulty with current curriculum.
  - Provided regular feedbacks and acted as a bridge between the professors and students for better understanding.



# SAJAN KUMAR



## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Textile Engineering | Indian Institute of Technology, Delhi | 5.182          |
| 2014 | CBSE                          | JNV Bangalore Urban                   | 75.6%          |
| 2012 | CBSE                          | JNV Samastipur                        | 9.4/10         |

## SCHOLASTIC ACHIEVEMENTS

- **Dakshna Scholar:** May, 2012- May 2014
  - Among **Top 1%** of students selected across India accepted for **Dakshna scholar**
  - Accepted at JNV Bengaluru Urban, received financial assistance and free professional coaching for IIT-JEE

## INTERNSHIPS

- **Brainstorm Consulting, Bangalore:** May, 2017- July 2017
  - Filtered 50/150 universities to be contacted approaches by Brainstorm consulting using a six layered parameter algorithm
  - Developed marketing strategy and Implemented changes in for email marketing leading to a 10% increase in response rate
  - Conceptualized, designed and fabricated 14 content and video assets for coaching services provided by company
  - Received letter of recommendation from Co-founder, for distinguished and commendable work accomplishments
- **Indian Road Safety Campaign, Tripp (DEC, 2017)**
  - **AMBIVAN** : Joint venture by IIT Delhi and IRSC that aims at providing fast and reliable ambulance services throughout the country
  - **Conducted** survey across all Delhi major hospitals, police stations and victims on post emergency care services
  - Analysed the survey data collected from **CATS** employees to better identify the need of a national centralised emergency ambulance service

## PROJECTS

- **Simple query processor, Image Morphing System in C++(prof..Prem Kalra)** (Apr 2016-May2016) :
  - Created C++ module to transform source image to destination image through multiple intermediate images using open cv to library
  - Used triangularization of the feature points in the source, destination image and all the intermediate images to fill in pixel values and formed a video of the final transformation
- **Product Realization Project (Dr. Sunil Jha)** (September, 2015 - November, 2015) :
  - Designed a movable, foldable and compatible table for everyday use; Formulated a step wise strategy to construct it
  - Assembled the parts perfectly and arrived to a product appreciated by the professor for extra ordinary work and talent
- **Preparation of Cellulose Nano-crystals(CNC) Film (Prof.Kavya Dashora)** (June, 2018 - August, 2018) :
  - Replacement of Inorganic polythene transparent films with these organic Cellulose Nanocrystals Based Films
  - Extracted Cellulose by pulp formation and form cellulose Nano Crystals by centrifugation
- **Layout Designing** (April, 2018 - May, 2018) Dr. S. M. Ishtiaque, Prof. Textile Tech. Department : Course Project
  - Reduced 10% space requirement by altering existing layout design; Appreciated for excellent performance in project
  - Designed a Process Oriented Layout considering factors such as safety, cost minimisation, minimum movement & flexibility

## TECHNICAL SKILLS

- **Programming Language** C++, Java, CorelDRAW, Html
- **Softwares** Microsoft Excel, MS Word, MS PowerPoint, Matlab, Adobe Photoshop, Autodesk Inventor

## COURSES DONE

Engineering Mechanics, Introduction To Chemistry, Engg. Visualization & Comm., Product Realization By Manf., Profe. Ethics & Social Resp., Intro. To Computer Science, Intro. To Electrical Engg., Profe. Ethics &social Resp.-2, Experimental Methods, Environmental Science, Textile Fibres, Intro. To Biology For Engineer, Yarn Manufacture I, Fabric Manufacture I, Tech. Of Text. Preparation & F, Social Science Approaches To Development, Electromagnetic Waves&qua.mec., Manufactured Fibre Technology, Yarn Manufacture II, Fabric Manufacture II, Tech. Of Textile Coloration, Introduction To Textile Tech., Introduction To Economics, Minor Design Project - I, Evaluation Of Textile Material, Theory Of Textile Structures, Speciality Yarns And Fabrics, Production & Operations Mgmt, Special Module In Inner Development-II, Special Module On Inner Development-III, Calculus, Linear Algebra & Diffe. Equa.

## EXTRA CURRICULAR ACTIVITIES

- **Sports & Games**
  - Weightlifting: Participated in inter-hostel weightlifting competition in 72kg and 77kg category for consecutive years
- Cleared Certificate 'A' Examinations of **National Cadet Corps(NCC)** in 2010, under **Ministry of Defence, Govt. of India**



# SHEETAL SHRAISTH



## ACADEMIC DETAILS

| Year | Degree / Board                        | Institute   | GPA / Marks(%) |
|------|---------------------------------------|---|----------------|
| ---  | B.Tech in Textile Engineering<br>CBSE | Indian Institute of Technology, Delhi<br>Jawahar Navodaya Vidyalaya, Ranga Reddy, Hyderabad | 7.318<br>91.2% |
| 2014 | CBSE                                  | Jawahar Navodaya Vidyalaya, Gaya, Bihar   | 10 CGPA        |
| 2012 |                                       |   |                |

## COURSES DONE

Engineering Mechanics, Introduction To Chemistry, Engg. Visualization & Comm., Product Realization By Manf., Linear Algebra & Diffe. Equa., Introduction To Engineering, Language & Writing Skill, Intro. To Electrical Engg., Calculus, Language & Writing Skill-2, Experimental Methods, Chemistry Laboratory, Introduction To Psychology, Intro. To Biology For Engineer, Mechanics Of Solids And Fluids, Fundamentals Of Language Sciences, Probability & Stochastic Pro., Rural Industrialisation Polices Programmes And Case, Technology Of Utilization Of Wastelands & Weeds

## SCHOLASTIC ACHIEVEMENTS

- **International Math Olympiad'12:** International rank- 475 (Bronze medal)
- **Dakshana Scholar:** Secured a position under best 240 students out of 50,000 students expanding nationwide.

## INTERNSHIPS

- **Arvind Ltd., Gandhinagar** (May, 2018 - July, 2018) : ***Failure Analysis in Yarn Dyeing Lab under Shirting Division***
  - **Failure analysis** of rejection under desk-loom, yardage & bulk samples in yarn dyeing lab by taking data on daily basis.
  - **Data analysis** to find the major reason of rejection & under whose supervision & worker maximum failure is happening.
  - Learned various dyeing cycle, dyes & auxiliary chemicals for different textile fibers & knew different counts used there.
  - Learned soft winding, pre-treatment & finishing by visiting whole yarn dyeing department including bulk & lab machines.
  - Visited various departments other than Yarn Dyeing such as Spinning, Processing, Knitting, Printing, Weaving, etc.
- **Pravah NGO, Delhi** (Dec, 2016) : ***SMILE Internship***- A student mobilization initiative for learning through exposure.
  - Participated in 1 month program on self-exploration and social action towards understanding and living the constitution.
  - Led the team of 25 in *Shramdaan* movement, completed on-field production of salt using minimal available resources.
  - Worked with a rural organisation, ALFA society, Udaipur, for 3 weeks, volunteered to teach underprivileged children.

## PROJECTS

- **Antimicrobial finish on cotton using plant extract, B.Tech thesis (Bhupendra Butola)** (Aug, 2018 - Present) :
  - Reviewed previous research literature on antimicrobial finishing done on cotton using different types of organic matter.
  - Experimenting the antioxidant and antimicrobial finishing on cotton fabrics using silver nano-particles (AgNPs).
  - Developing hypothesis to find alternative agents to reduce Silver to AgNPs functional finishing agents for cotton.
- **Effect of Mood on Persuasion (Purnima Singh)** (Aug, 2016 - Nov, 2016) : ***Personality & Social Psychology***
  - Explored the impact of happy and sad moods on the processing of persuasive communications with 80 test subjects.
- **Designed a Camera Tripod Stand (Sunil Jha)** (Sep, 2015 - Nov, 2015) : Designed a multi-functional camera support with adjustable legs which has the compatibility with all demographic locations using many workshop skills like carpentry, black-smithy, machinery, sheet-metal, & various other machines like lathe, CNC & engineering drawing skills.

## POSITIONS OF RESPONSIBILITY

- **Mentor, Student Mentorship Program, IIT Delhi** (July, 2017 - May, 2018) :
  - Mentored the 1st year Textile department students & helped them get acquainted with the studies and environment.
  - Organised different sessions related to studies & extra curricular activities for them as per the requirement.
  - Guided them to utilize the resources and opportunities available for them during their 4 year stay at IIT Delhi in best possible way, shared their academic as well as personal problems by being their 1st and constant friend here.

## TECHNICAL SKILLS

Autodesk Inventor; MS Office

## EXTRA CURRICULAR ACTIVITIES

- **NSS, IIT Delhi:** Active participant in different projects for human & educational development like teaching project.
- **Chess, NVS Sports Meet:** Winner in Cluster Meet,2009; Got selected for National Meet,2010.



# SHIVAM SAHU

## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Textile Engineering | Indian Institute of Technology, Delhi | 7.767          |
| 2014 | AISSCE, CBSE                  | Delhi Public School Gurgaon           | 94.2%          |
| 2012 | AISSE, CBSE                   | Delhi Public School Gurgaon           | 9.2            |

## SCHOLASTIC ACHIEVEMENTS

- Scholar Badge:** Awarded scholar badge for exceptional academic & co-curricular performance in Class 10 (2011-12)
- Consilium'18:** Awarded First position & merit certificate in NSIT Business Conclave for excellent business case study presentation(2018)
- E-Summit NSIT:** Awarded First position in Unravel Business case study competition for excellent entrepreneurship skills (2018)
- Aspire 2017:** Awarded First position in UN NGO Forum event organised by Enactus for best entrepreneurship model (2017)

## INTERNSHIPS

- Delta Electronics, Gurgaon/IABG Department(Automation)** (May, 2017 - July, 2017) : *Industrial Automation*
  - Structuring and Edification of the Manual Textile Industry for incorporation into the final report made to the client
  - Studying and analysing thoroughly **application of Servo Drives for automation in Textile Industry** to optimise costs
  - Conducting a comprehensive **Cost-Benefit analysis of Automation** using Programmable Logic Controllers (PLC) in Textile Industry
- Federal Mogul Motorparts Gurgaon/Business Development(Sales/Marketing)** (May, 2018 - July, 2018) : *Business Consulting*
  - **Comprehensively studied & assisted in identifying potential business opportunities** for an Aftermarket Sales firm
  - **Conducted extensive market research** on underperforming products & **developed commensurate working solutions**
  - **Designed Long Term & Short Term Business expansion models** following extensive sales analysis
  - **Singlehandedly prepared** & submitted a Market Research report on Business Expansion using the **Bottom-Up** approach

## EXTRA CURRICULAR ACTIVITIES

- Awarded Certificate of Proficiency** in Football for significant contributions to the school team (2011-12)
- Led** my team in the IIT Delhi I-CAN conference and was **accredited a special mention** for **best Video Advertisement**
- Volunteered with the NGO Ghar Angna** for **3 consecutive years** to help underprivileged children
  - **May 2018 – July 2018** : **Teaching/Encouraging students to take up STEM fields** & importance of higher secondary education
  - **May 2017 – July 2018** : **Helped build, procure & renovate school furniture & classroom essentials**; Encouraged parents to send their children to Ghar Angna more often
  - **May 2016 – July 2016** : **Worked with local administration and Ghar Angna** to educate & spread awareness against usage of Non-Biodegradable plastic for environment conservation.

## POSITIONS OF RESPONSIBILITY

- Event Coordinator, Mahsheed, Hostel Fest** (Feb, 2018): *Unanimously elected to assist 10 BRCA representatives*
  - Anchored the Mahsheed Pro night and award ceremony
  - Led 40+ volunteers to manage execution of Drama Events; negotiated with professionals to invite them as event judges
  - Ideated a performance to show gratitude to the passing out seniors for their contribution to the hostel
- Co-Captain, Hostel Football Team** (April, 2017 - March, 2018) :
  - Tutored the freshmen and led the hostel to secure **General Championship** for **3 consecutive years**.
  - **Co-Organised** Intra-Hostel Football Tournament in "Mahsheed", significantly boosting overall participation in the sport.
  - **Managed** regular practice sessions for the hostel team; procured and managed necessary equipment for the residents
- Co-Vice Captain, Hostel Football Team** (April, 2016 - March, 2017) :
  - Played key role in directing the football team of hostel to finish 3rd in Inter Hostel Football Tournament, 2016
  - **Catapulted** hostel's performance, thus securing **1st position** in **Inter-hostel General Championship**



# SHIVJEET



## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Textile Engineering | Indian Institute of Technology, Delhi | 7.25           |
| 2014 | C.B.S.E                       | Halwasiya Vidya Vihar Sr. Sec. School | 87.6           |
| 2012 | C.B.S.E                       | Halwasiya Vidya Vihar Sr. Sec. School | 9.4            |

## SCHOLASTIC ACHIEVEMENTS

- Minor Degree:** Pursuing minor in **Business Management** from Department of Management Studies, completed 12 / 21 credits
- Course Certification:** Completed **Machine Learning** by Prof. Andrew Ng, **Stanford University & Intro. to Data Science**, Alison ('18)
- Olympiad:** Secured **State Rank 35 & Olympiad Rank 293** in International IT Olympiad, Computer Literacy Foundation ('11)
- International Publication:** Authored research paper on **Effect of high tempo music** in restaurant-bar, published in IJAMR ('18)
- 6σ Certification:** Awarded by the Aveta Business Institute and SSC for displaying curriculum proficiency; scored 95% ('18)

## INTERNSHIPS

- Venera Technologies Pvt. Ltd., Noida** (November, 2017 - December, 2017): as a **Business Analyst**
  - Surveyed over **100 professionals** in the OTT industry, captured the content quality challenges faced by the companies
  - Executed **email campaigns** over a month based on **buyer personas**; showed a net **increase of 20%** in leads from last quarter
  - Assessed subsequent growth in **subscriber base, revenue, content volume** of major OTT service providers in Europe*Received Letter of Recommendation from product marketing specialist & appreciation for sterling work ethics and teamwork*
- Revolutionaries Motivations, Delhi** (May, 2018 - July, 2018): as a **Marketing Executive**
  - Collated potential clients data and pitched services to **100+ prospects**, organized motivational sessions for the organizations
  - Conducted **competitor analysis**; analysed business strategies for multiple organisations to optimize financial performance*Received Letter of Recommendation from Chief leading officer(CLO) for exemplary work accomplishment and dedication*

## POSITIONS OF RESPONSIBILITY

- Deputy General Secretary, BSA, IIT Delhi** (April, 2018 - Present): Elected by 154 students to lead a **3-tier team** of 38 **captains & vice-captains, 13 secretaries and 7 executives**, managing all dimensions of sports for **8000+** students & staff
  - Monitored conduction of summer **sports camp** for 12 sports training 150 institute players to find promising players
  - Introduced **PG sports week**, an initiative to lay emphasis on the scouting and inclusion of PG in the BSA community
  - Re-introduced the **Inter-Departmental Championship** to foster greater participation in sports of PG students and faculty
  - Pioneered online survey for better **feedback & redressal** system; resulting in the substantial mitigation of grievances
  - Organised numerous BSA events, viz. BSA freshers orientation, full contingent tournaments, BSA night, all Boards' night
- Institute Captain, Volleyball, Board for Sports Activities, IIT Delhi** (April, 2017-April, 2018):
  - Organized **Volleyball Premier League'17** on GOT theme with special attention to freshers to inculcate volleyball culture
  - Initiated weekly **practice matches** with Delhi college teams to foster sports temperament and improve competitiveness
  - Organized exclusive events like PG Sports week and **freshers week** to increase participation of PG and UG students
- Co-Sports Secretary, Jwalamukhi Hostel** (October, 2017-April, 2018): Led hostel to **win the BSA General Championship**
  - Negotiated **new vendor** approval; introduced new **inventory system** & continuous performance review of the captains
  - Accomplished **100% YOY** increase in PG participation; led the contingent of 110 to **2 Gold, 1 Silver & 4 Bronze** medals
- Events Coordinator, Lawn Tennis, Sportech** (November, 2017-February, 2018):
  - Administered **logistics** for each team by coordinating with the infrastructure, accommodation and the hospitality teams
  - Formed close **liaison** with the participants by maintaining proficient composure, negotiation & problem-solving skills

## EXTRA CURRICULAR ACTIVITIES

- Inter-college level:** Represented IIT Delhi across **8+ Inter-college tournaments** securing **4 Gold, 2 Silver & 1 Bronze**
    - Winner, **Gold** medal, Volleyball tournament, **Inter IIT Sportech**, only **Freshman** in the institute volleyball team (2016)
    - Winner, **Gold** medal, Volleyball tournament, **Breeze**, Shiv Nadar University's sports festival, leaded **new team** (2016)
    - Winner, **Gold** medal, Volleyball tournament, **Arena**, University College of Medical Sciences' annual sports festival (2016)
    - Winner, **Gold** and **Silver** (captain) medal, Volleyball tournament, **Sportech**, IIT Delhi's annual sports festival, (2017 & 2018)
    - Winner, **Bronze** medal, Volleyball, **Sangram**, IIT Roorkee's sports fest; awarded **Best Player** of the tournament (2018)
  - Institute level:** Represented hostel across **4 disciplines** securing **7 podium finishes** in BSA Tournaments for 3 years
    - Winner, **Gold** and **Bronze** medal in inter-hostel **Football** championship, as a **striker** and **goalkeeper** (2016 & 2017)
    - Winner, **Gold** and **Bronze** medal in inter-hostel **Volleyball** (2017 & 2018) and **Cricket** championship (2016 & 2017)
    - Winner, **Bronze** in inter-hostel **Water Polo** championship, contributed to **win the General Championship** (2016)
- Awarded **Institute Colours** for outstanding performance in volleyball at **51st Inter-IIT Sports Meet, IIT Kanpur** (2016-17)*
- Awarded **Outstanding & Significant Contribution to Sports, highest awards** at hostel level for sports activities (2017 & 18)*
- Awarded **Best Fresher of the Year**, of Jwalamukhi Hostel participating in 4 different Sports in General Championship (2015-16)*



# SHRENVASS J K



## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Textile Engineering | Indian Institute of Technology, Delhi | 7.228          |
| 2015 | Telengana State Board         | Narayana Educational Institutions     | 97%            |
| 2013 | CBSE                          | Kendriya Vidyalaya                    | 9.4            |

## INTERNSHIPS

- **NITI AAYOG, Public-Private Partnership(PPP) Cell:** *New Approaches in PPP for Airports* (May 2018 - July 2018):
  - Analyzed the capex, opex, **concession agreements** of 50+ airports, and the trend in customer behavior for airways
  - Proposed a new **bidding methodology**, concession terms and **user tariff computation** to reduce tariff by 10%
  - Devised **gravity model** for airports to categorize the airports into three segments using **least square method**
  - Prepared a **report** suggesting changes in concession agreement and has been passed to the **PPP** cell for evaluation
  - Assisted in developing the **tender document, RFP cum RFQ document** for Ro-Ro Ferry Projets worth **Rs.500 crore**
  - Letter of Recommendation by Mr.Aman Hans, Director, PPP cell for outstanding skills in policies and research work**
- **Indian Institute of Foreign Trade:** *Assesment of Intra Industry Trade between Indian and EU* (June 2017 - July 2017):
  - Identified the trade pattern of **10 Harmonized System** codes for the years 2005-2015 by analyzing the IIT trade data
  - Analyzed Grubel Lloyd Index, Marginal Intra Industry Trade, HIIT, HQ-VIIT, LQ-VIIT for alpha=0.15 & alpha=0.25
  - Correlated the result with the past economic and business life cycle of events using **multivariate regression model**
  - Letter of Appreciation from Prof. Biswajit Nag for competence, analytical skills and recommended for big assignments**
- **Smartivity Inc, New Delhi:** *Digital Marketing of S.T.E.M toys using Google adwords* (May 2016 - June 2016):
  - Analyzed the **cash burn rate** of the startup and formulated a budget plan of **\$250** for three weeks for 6 Ad Campaigns
  - Attained a total of **1,079** clicks in search network out of total **36,868** impressions from all the 6 ad campaigns
  - Achieved a remarkable CTR of **2.93%** and increased the sales revenue by **7%**; generated a total revenue of **Rs.35000**

## PROJECTS

- **IIM Lucknow:** *Marketing strategies in the corporate world; Prof. Sameer Mathur: Distant learning* (May 2017 - June 2017)
  - Assessed the marketing strategies and business models of 10+ companies by using **SWOT, PESTLE** and **4P** analysis
  - Analyzed **Harvard Business School** Cases; proposed a solution for **Emirates** by developing a competitive pricing model
  - Planned a concept for building an app for gaming by formulating a **marketing strategy**, and developed a **revenue model**
- **Strategic human resource management in Walmart stores:** *Supervisor: Prof.Suchi Sinha; Course Project* (Apr 2018):
  - Analysed different corporate strategy and **HR strategy**; Studied the HR policies and the role of HR manager at **Walmart**
  - Integrated the study with the corporate strategy and **suggested** improvements to increase the **satisfaction** of employees
- **Accounting and Financial Management:** *Supervision: Prof.Shveta Singh; Course Project* (Aug 2018 - Ongoing):
  - Studied income statement, **balance sheet**, statement of cash flows, **financial ratios**, cost concepts and profit planning
  - Solved a **real-world business** case problem using financial skills and tools and proposed a **solution** for the business

## EXTRA CURRICULAR ACTIVITIES

- **Dramatics and Dance**
  - Winners-First Place, Street Play:** Played a key role and instrumental in lifting the play "Kyunki mein anath hoon"(2017)
  - Winners-Second Place, Group Dance:** Led a team of **10** members and choreographed the main sequence (2017)
- **CHESS:** *Represented the District thrice in Tamil Nadu State Championship and the school 5 times at Regional Level*
  - Reached top 16 in **Tamil Nadu State Championship** out of 150+ participants; **District Champion**- 7 consecutive years
  - Consistently represented the district **13** times in state-level matches and bagged **5 gold, 1 silver, 1 bronze medals**
- **Tamil Society:** Undertook multiple initiatives to promote Tamil Culture and encouraged members to participate(2017-18)
  - Planned the **agenda** of every meeting; Raised and managed the society **fund**; Organized games and sports events
  - Promoted the events by creating **trailers** and **videos**; choreographed dance events; **anchored** for every function
- **Other Interests:** Observing Stock market changes, Mimicry, finance and economy news

## POSITIONS OF RESPONSIBILITY

- **Mentor, Student Mentorship Programme (SMP)** (July 2017 - April 2018):
  - Mentored **4** freshmen from diverse backgrounds and skills and helped them to acclimate into the new environment
  - Coordinated with a team of **20+** mentors to organize the orientation session and parent-teacher meeting for **850** freshers
  - Awarded for Significant Contribution to SMP:** *One of the four mentors out of total 200 mentors to receive the recognition*
- **Executive, Publicity Department, Economics Club** (July 2016 - April 2017):
  - Introduced interactive economic games, guest lectures, stock market simulations and publicized through social media
  - Coordinated with a team of 4 coordinators and 16 executives in conducting quiz competitions, parliamentary debates
  - Wrote an article about **Brexit and its Implications in India** and have a viewership of more than **600** views in Quora



# SIDDHARTH RAO GAUTAM



## ACADEMIC DETAILS

| Year | Degree / Board                        | Institute  | GPA / Marks(%) |
|------|---------------------------------------|--|----------------|
| ---  | B.Tech in Textile Engineering<br>CBSE | Indian Institute of Technology, Delhi<br>Delhi Public School, Kalyanpur,<br>Kanpur | 6.133<br>92.4% |
| 2014 | CBSE                                  | St. Vivekanand Sr. Sec. Public<br>School, Etawah                                   | 10/10          |
| 2012 |                                       |  |                |

## PROJECTS

- **Simple query processor, Image Morphing System in C++**(Prof. P.R. Panda) (Apr, 2016 - May, 2016) :
  - Implemented triangularization scheme of feature points to fill in pixel values and formed a video of final transform.
- **Product Realization Project**(Dr. Sunil Jha)(September,2015 - November, 2015) :
  - Designing and manufacturing of a wooden **Scissor Lift**.
- **Preparation of Cellulose Nanocrystals(CNC) Film**(Prof. Kavya Dashora) (June, 2018 - August, 2018) :
  - Replacement of Inorganic polythene transparent films with these organic Cellulose Nanocrystals Based Films
- **Research on Assessment,Adaptations and mitigation for Climate Change under IPCC AR5 in Indian context** (Prof. Sandeep Sahany) (July, 2018)
- **Designing of a Key Chain using computer Aided Design and fabricate it using 3Dprinter**(Prof. P.V. Madhusudhan Rao) (November, 2015)
- **Designing Of Simple 555 timer circuit** (Prof. Kushal Shah) (April, 2016)

## TECHNICAL SKILLS

- C++, VB Script, AutoDesk Inventor, MS Office,CSS, Html
- MATLAB,Computer Numerical Control(CNC), minitab

## POSITIONS OF RESPONSIBILITY

- **Director, Dramatics Club** (2017 - 2018) :
  - **Director, Ankahi - The Street Theatre Society of IIT Delhi (2017-18)-:**
  - Managed a team of 35 people and directed a street play 'Unaccounted 3.5 crore', on life of orphans and **awarded as Best Director at Rendezvous 2017**.
  - Conducted 3 phase auditions of 100+ candidates to handpick a team of 18 actors for institute street play team.

## EXTRA CURRICULAR ACTIVITIES

- **Dramatics:**
  - **Winner, Secured 1st position** , Inter college street play competition, **Rendezvous 2016**, 'Uncounted 3.5 crore'.
  - **Winner, Secured 2nd position** in street play competition at **Inter IIT Cultural Meet Kanpur 2017**, 'Unaccounted 3.5 crore'.
  - Winner, **Best Director**,Inter college street play competition, **Rendezvous 2017**, 'Unaccounted 3.5 crore'
  - Performed many plays In **Delhi University Festival,Manthan-2016,2017**
  - **1st position** in BRCA Inter hostel street play 2016, **Kyunki mai Anaath Hu**
  - **1st position** in BRCA Inter Hostel Stage play 2017, **Qaid**
  - **2nd position** in BRCA Inter Hostel Street play 2018, **Calling 108**
  - **2nd position** in BRCA Inter Hostel Stage play 2016, **Uljan**
- **Music:**
  - Active member of **Music club IIT Delhi**.
  - Participated In **BRCA Dhwani 2016,Jukebox 2016,Consonance 2016**.
  - Participated in **BRCA Mixtape 2017**
- **Dance:**
  - Participated in BRCA Group Dance Competition,Inter Hostel 2016
- **Fine Arts Club**
  - Participated in Tile painting competition, Good in making Sketch

## COURSES DONE

Experimental Methods, Environmental Science, Introduction To Sociology, Mechanics Of Solids And Fluids, Social And Political Philosoph, Applied Statistics For Textile Engineers, Earth System Modeling, Fundamentals Of Language Sciences, Rural Energy Systems, Design Of Exper. & Stat. Tech., Special Module In Inner Development-ii, Special Module On Inner Development-iii



# SOPHIYA KHAN

## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Textile Engineering | Indian Institute of Technology, Delhi | 8.591          |
| 2015 | AISSCE (CBSE)                 | Delhi Public School, Jodhpur          | 94%            |
| 2013 | AISSE (CBSE)                  | Delhi Public School, Jodhpur          | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- **International Publication** : Authored **five papers** accepted in international conferences- *Japan, Taiwan and Indonesia*
  - Authored, '*Effect of molecular energy level of electron transport layer on recombination zone in OLED*', **IEEE Xplore** (2018)
  - Authored paper titled '*Financial Inclusion Index Approach Unifying E-wallets*', accepted in ICSTSS, Indonesia (2018)
- **IITD Semester Merit Award** : Ranked in **top 7%** of the department; **Department Rank 5** among **95** students (2018)
- **Global Engineer Leadership (GEL) Scholarship** : **1 in 35** to be globally awarded the SRP-NTHU Scholarship (2017)
- **Katalyst Scholarship** : Awarded for **3 consecutive years** for excellent academic credentials & leadership skills (2016-18)
- **Shining Star, DPS Jodhpur** : Conferred for outstanding performance in academics and extracurricular activities (2015)
- **International Olympiad of English Language** : Second level, secured state rank **19** and international rank **598** (2012)

## INTERNSHIPS

- **Cogneau Systems, Gurgaon** (May, 2018 - July, 2018) : *Design & Development, Big Data Application*
  - Reduced processing time from **15 min to 2 sec** of supply chain management firm database having **1M** data entries
  - Achieved **two-fold** increase in efficiency & reduced latency by creating dashboard for visualization of *akka actor metrics*
  - Increased **accuracy by 15%** using web scraping python tool to get real time data, providing insights in delivery logistics

*Received Letter of Appreciation for commendable work accomplishments and demonstration of excellent conduct*
- **National Tsing Hua University, Taiwan** (May, 2017 - July, 2017) : *Efficiency Improvement of OLEDs*
  - Devised a comprehensive model to quantitatively investigate effects of molecular orbital levels of three different layers
  - Performed simulations for parameters optimization, findings accepted and being used by **domain experts** for synthesis

*Received Letter of Recommendation from Prof. J.H. Jou for exceptional research work within a limited time frame*

## POSITIONS OF RESPONSIBILITY

- **Deputy General Secretary, BSW** (April, 2018 - Present) : *Elected to lead a three-tier team of 180+*
  - Envisaged & executed **10+ new** initiatives; achieved inclusion of **BSW PG representatives** & pioneered **BSW Council**
  - Organized **Open House** for female JEE(adv)'18 qualifiers, managed **80+** volunteers, live streamed by **Doordarshan**
  - Revamped website achieving **four-fold** increase in outreach; implemented formation of **career counselling** repository
- **Overall Coordinator, Speranza** (April, 2018 - Sept, 2018) : *Led a team of 50+ to conduct 15+ events*
  - Effectively administered and allocated the festival budget, **20%** cost cutting by efficient fund allocation and bill clearance
  - Remodeled Speranza through recognition system, restructured events and achieved YoY increase of **60%** participation
  - Stimulated **two-fold** increase in outreach, designed program for online & offline targeted publicity by innovative methods
- **Finance Secretary, BSW** (Apr, 2017 - Mar, 2018) : *Spearheaded a team of 26 elected representatives*
  - Conceptualized online portal for Student Counseling Services, collaborated with **YourDOST** benefitting **500+** students
  - Augmented student welfare fund through introduction of **merchandise** for students, improved the sales of **SCOOPS** by **25%**
- **Events Coordinator, Tryst** (Sept, 2017 - Feb, 2018) : *Led a 2-tier team of 120+ to organize 70+ events*
  - Formulated and organized **flagship event** National Business Case Study competition that witnessed **350+** participation
  - Introduced and launched a **new** event '**Forensics, A Murder Mystery**', received **250+** participation from **25+** colleges

## EXTRA CURRICULAR ACTIVITIES

- **Dramatics** : *Directed and acted in 20+ performances at national & institute level and for social causes in last three years*
  - National and Institute Level : *Represented IIT Delhi in 5 plays at National Level Street Play competitions*
    - **Winner**, Rendezvous, National Level Street Play competition, titled '*Uncounted 3.5 crore*', among **150+** teams, **Actor** (2016)
    - **Winner**, Inter-Hostel Music Video, titled '*Enough*', **Director** (2017); **Lead Role**, Inter-Hostel Music Video Making (2016)
    - **Runner Up**, Inter IIT Cultural Meet Street Play competition, 20+ teams from all IITs, **Lead Actor** and **Director** (2017)
    - **Runner Up**, Inter-Hostel Mono Act competition, among 35+ entries & 13 hostels, **Co-director** and **Playwright** (2018)
    - **Best Directed Play**, Rendezvous, National Level Street Play competition- **Mimansa**, **Director** and **Lead Actor** (2017)
    - **Best Entertaining Play**, Inter Hostel Street Play competition, based on Mob Justice, **Lead Actor** and **Director** (2018)
  - Social Endeavour : *Actor, active member of 'Ankahi' - a student initiated social theatre group of IIT Delhi*
    - Performed **10+** street plays on various **socio-political issues** at multiple locations in Delhi affecting huge audiences
    - Performed a special **Orientation Play** for freshman batch, appreciated and acknowledged by **850+ students** (2016)
- **Fine Arts** : **Runner Up**, Inter-Hostel Theme based Oil Painting competition, on theme '*Creation*', among **90+** entries (2015)
- **Athletics** : **Runner Up**, Inter-Hostel 200m sprint race (2015); **Second Runner Up**, Inter-Hostel 200m sprint race (2016)



# SURYA BHUSHAN



## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Textile Engineering | Indian Institute of Technology, Delhi | 7.004          |
| 2015 | C.B.S.E                       | Ess Ess Convent School Agra           | 91%            |
| 2013 | C.B.S.E                       | KVS #1 AGRA                           | 10/10          |

## QUALIFYING EXAMS

- **Joint Entrance Examination (JEE) Advanced Rank:** 2478 (OB)
- **Joint Entrance Examination (JEE) Mains Rank:** 1896

## SCHOLASTIC ACHIEVEMENTS

- **Subroto Memorial Scholarship (2017-2018):**For Excellence in Academics in B Tech 3rd Year .
- **National Level Science Talent Search examination:**(2012)Rank **538**(Uttar Pradesh) and 4049(All India).
- **The Green Olympiad(Under ministry of Environment and forest):**(2011) Qualified for 2nd level.

## COURSES DONE

Engg. Visualization & Comm., Product Realization By Manf., Intro. To Computer Science, Intro. To Electrical Engg., Intr.to Material Sc. & Engg., Microeconomics, Macroeconomics, Evaluation Of Textile Material

## TECHNICAL SKILLS

- C++, Autodesk, Matlab, LateX, Microsoft Word, MS-Excel, Minitab, Power point, ArcGIS.

## INTERNSHIPS

- **Oh My Laundry** Winter Internship (Dec 2017) :
  - Worked on tie-ups with companies who require regular services also worked on ideas using new chemicals for washing, focusing on minimizing the environmental harm.

## POSITIONS OF RESPONSIBILITY

- **Infrastructure Coordinator -TRYST**(September 2017 to february 2018)
- **Overall Coordinator , Mahsheel, Jwalamukhi House** (February 2018)
  - Lead a team of 13 representatives and other volunteers to successfully organize a series of events, Planned, strategized and supervised the budget, publicity, decoration, event structure and judging criteria for the events.
- **COP-MIN Member Jwalamukhi House** (currently working):- Member of anti-(Ragging, Harassment, and Drugs) committee, Organised workshops and lead the vigilance team to avoid any possible dangers.

## PROJECTS

- **Dyeing using Sonicator (Prof. Jawed N. Sheikh)** (Dec, 2017 - Aug, 2018) :
  - Compared the dyeing properties like antimicrobial, anti-oxidant, washing/ colour fastness of the natural dye extracted from groundnut shell using two different methods -1)Sonication extraction and 2)boil extraction method.
  - Explored the new Dye Extraction method and scope by Sonicator machine.
- **BTech project (Currently Working) (Prof. R.S. Rengasamy)** (July, 2018 - Dec, 2018) :
  - Applying technical properties to sports fabric making it more comfortable and improving the sportsman's performance.
- **Delhi Master Plan 2021 (Prof. AK Gossain)** (Sept 2016-oct 2016) :
  - Analysed the drains of Delhi, and prepared a plan for saving Delhi from floods in monsoons, as per results obtained.
- **Simplex Method for Resource Optimization (Dr. Preeti Ranjan Panda)** (March, 2016 - April, 2016): COL100- Implemented in C++ the Simplex method's algorithm to optimize resource variables in given linear ProgrammingProblems.
- **Made a Multipurpose wagon(Prof. Sunil Jha)** (July,2015 - Nov,2015)(Course Project-MCP100) :

## EXTRA CURRICULAR ACTIVITIES

- **Infrastructure Activity Head-Rendezvous**(June 2017 to october 2017)
  - Managed the installation of stalls and event areas and their respective infra inventory requirements.
- **Infrastructure activity head Tryst**(October2016 to february 2017).
- **Awarded 1st position in BHM Stall decorations**(2016-2017),by BHM, IIT Delhi
- **Member of hostel maintanence committe**(2017-18)
- **Volunteered incollection drive** (2016 and 2017) under NSS IIT DELHI.
- **-Volunteered, Dog feeding**(Dec'16) Fed dogs taking food from different hostels, Under NSS IIT Delhi.



# SUSHANT KUMAR



## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Textile Engineering | Indian Institute of Technology, Delhi | 7.189          |
| 2015 | AISSCE (Class XII, CBSE)      | Darbari Lal DAV Model School, Delhi   | 95%            |
| 2013 | AISSE (Class X, CBSE)         | Delhi Public School, Bahadurgarh      | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- Data Analysis with Python:** Received certification from **IBM** for a course offered by Coursera, scored 91.4% (2018)
- Minor Degree, Business Management :** Completed 12 out of 20 credits across courses in operations and marketing management (2018)
- International Publications :** Co-authored 2 research papers; 1 accepted and 1 published in peer-reviewed journals (2018)
  - Kumar et al., *Disruptive Analysis of Opportunities for Blockchain and Distributed Ledgers in Telecom Industry*, IJSRET, Volume 4
- 6 Sigma Certification :** Awarded by Aveta Business Institute & SSC for displaying outstanding curriculum proficiency; scored 94% (2018)
- Merit Appreciation Letter**, by then HRD minister Smriti Irani for outstanding academic performance in class XII (2015)
- Diploma in Operations Management :** Received certification for diploma course in operations management (2018)
- Zonal quiz competition:** Secured **1st position** of The Quest conducted in 2009 and participated in TCS IT wiz competition (2014)

## INTERNSHIPS

- Pennybase Technology Solutions Pvt Ltd, Gurgaon** (May, 2018 - July, 2018) : *Business Analyst*
  - Determined revenue potential and growth opportunities by incorporation of blockchain into supply chain management for clients
  - Investigated the current scenario of **banking system in Bangladesh**; designed layout for integration of blockchain in the system
  - Assessed potential growth of upcoming ventures and researched emerging trends in the international blockchain industry
- Skill Circle, Delhi** (Nov 2017, Dec 2017): *Marketing and Business Development*
  - Gathered quantitative and qualitative data for the purpose of preparing market studies, achieved **twice the targeted growth**
  - Recommended ways to evolve by analyzing and predicting emerging technologies & business trends in the Edu-Tech industry
  - Analysed market to assess potential growth of new courses and extensively researched Indian and global Edu-Tech business model
- NewYork University, NewYork** (May, 2017 - July, 2017) : *Structural DNA Nanotechnology*
  - Worked on DNA motifs to build target shapes & arrangements through DNA based computation and nanoscale features of DNA
  - Emphasised on assembly of individual components into objects & topological targets & their manipulation as nanomechanical devices

*Received 'Letter of Recommendation' for impeccable work during the internship; extended opportunity for working in December 2017*

## POSITIONS OF RESPONSIBILITY

- House Secretary, Jwalamukhi Hostel** (April, 2018 - Present) : *Elected by 500+ to lead a 4-tier team of 70+ members*
  - Developed an **online tracking system** for efficient usage & availability of equipments of 13 sports and 10 BRCA clubs
  - Created **Jwalamukhi Cycle Bank** with cycle donations by outgoing hostel residents to rent out free cycles to residents
  - Constituted Hostel Alumni Committee to organise Alumni Sessions and create **Alumni Development Fund** for hostel development
  - **Mahsheel**: Planned, strategised and supervised the budget, publicity, decoration, event structure and judging criteria for **20+ events**
- Marketing Coordinator, Tryst** (September, 2017 - February, 2018) : *Annual Technical Festival of IIT Delhi*
  - Led a **3-tier team** of **20+** for execution and planning of marketing, media publicity, event flow, and professional tie-ups
  - Implemented a novel approach by focussing on media deals initially, to improve the outreach of the fest adding deliverables for cash sponsors
  - Improved the outreach of Tryst by collaborating with companies and online media and print media partners reducing the publicity cost
- Core Team Member, Speranza'16** (April, 2016 - September, 2016) : *Annual Youth Fest of IIT Delhi*
  - Conceptualized and implemented the flagship event **Jeopardy**, **reduced the fest budget by 20%** using junkyards
  - Administered end-to-end actualization of Rendezvous with Alumni, for student-alumni interaction across 13 hostels and **50+ alumni** guests

## EXTRA CURRICULAR ACTIVITIES

- Sports** : Represented Jwalamukhi Hostel in 2 Inter-Hostel General Championship for 2 consecutive years (2017, 2018)
  - **Winner**, Inter-Hostel Volleyball Tournament, secured precious points to win general Championship **consecutively 3rd time** (2018)
  - **Runner-up**, Inter-Hostel Volleyball Tournament, competing against 12 other hostels; won second consecutive General Championship (2017)
- Winner, BHM Stall Decoration**, Conceptualized and executed theme for decoration to win against 12 other hostels (2016)
- Hostel Publications**: Collaborated with the Jwalamukhi Student Publication and published **Jwalamukhi Newsletter's 1st ever edition**
- Student and Social Welfare Initiatives**: *Elected unanimously to manage and organise welfare activities in the institute (BSW)*
  - Organised joint sensitisation programme for freshmen and seniors regarding the ills of ragging and its legal consequences
- Awarded Significant and Outstanding Contribution to Hostel Management for vital maintenance initiatives** (2017, 2018)
- Entrepreneurship: Strategy and Marketing Consultant, Almora Blockspace** (May 2018, July 2018)
  - Extensively worked on **India's first blockchain based co-working**, designed blockchain technology around the business model
  - Created and implemented new business objectives to secure partnership with **25+ International Companies** in the blockchain ecosystem
  - Determined revenue potential and growth opportunities by analyzing similar services provided by competitors in the blockchain ecosystem



# TANUJ SINGH

## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Textile Engineering | Indian Institute of Technology, Delhi | 5.784          |
| 2014 | AISSCE, CBSE                  | D.A.V. Public School, Gurgaon         | 90.6%          |
| 2012 | AISSE, CBSE                   | D.A.V. Public School, Gurgaon         | 9.6/10         |

## SCHOLASTIC ACHIEVEMENTS

- Awarded **certificate of appreciation** for commendable performance in **VAIGYANIKA (2012)** at **All India Level** in Physics and Chemistry
- Awarded **certificate of appreciation** for completing Level-2 of **amateur astronomer** level fostering scientific temper by S.P.A.C.E
- **Scored 99+ percentile** in qualitative reasoning (Problem Solving Assessment) conducted by CBSE
- Awarded certificate for **outstanding performance** in academics for 4 years by D.A.V. managing committee

## INTERNSHIPS

- **Ministry of Health and Family Welfare** (May, 2018 - June, 2018) : *Finance Division, National Health Mission*
  - Analysed 5+ criteria for **allocation of budgets** over **INR 300 crore** to various states
  - Categorized **state PIPs** by their performance & utilization indexes to **forecast budget allocations** for the next fiscal year
  - Analysed the **SFP** for Arunachal Pradesh and single-handedly carried-out the **financial management analysis** of the state
- **Reliance Industries Limited** (May, 2017 - July, 2017) : *Business Development and Sales*
  - Conducted extensive research on **geo-synthetic materials** for RIL Polymer Business (PP Division), New Delhi
  - Identified potential business opportunities by targeting stakeholders like **MORTH, Railways** and **CPWD**
  - Communicated developments to state nodal agencies and **provided cost analysis** for Polypropylene Geosynthetics
  - Executed a plan to conduct "*Voice of Customer Survey*", achieving **90%** success rate, reaching out to **100+** customers in **2 days**

## EXTRA CURRICULAR ACTIVITIES

- **Football** : Secured **podium** finishes across different levels, participating in **8 tournaments**.
  - **Gold Medal**, represented D.A.V.P.S. in **Hansraj National Sports Tournament** as the **Captain** of the team (2013)
  - **Gold Medal**, represented D.A.V.P.S. in **Zonal Level Tournament** as the **Captain** of the team (2011)
  - **Gold Medal**, represented hostel football team in Inter-Hostel Football Tournament (2016)
  - **Bronze Medal**, represented hostel football team Inter-Hostel Tournament, as **Vice-Captain** of the team (2017)
  - Awarded certificate of **appreciation** at **Haryana State Level Football Tournament** (2011)
  - Played integral role in securing **Inter Hostel GC** for 3 consecutive years in the capacity of **Captain** and **Vice-Captain**
- **Business Entrepreneurship** : Received accolades across various Case Study competitions for exemplary presentation skills
  - **Aspire 2017**: Awarded **First** position in the UN NGO Forum event organised by **Enactus** for best entrepreneurship model (2017)
  - **E-Summit NSIT**: Awarded **second** position in the Unravel Business case study competition
  - **Consilium'18**: Awarded **merit** certificate in the NSIT FES Business Conclave for excellent business case study presentation (2018)
- Awarded **Best Guitarist** for two consecutive years (2009-2010) from amongst 1400+ students

## POSITIONS OF RESPONSIBILITY

- **Hospitality Co-ordinator, Sportech** (December, 2018- March,2018) :
  - Co-ordinated a multi-tier team of **30+** activity heads to **conceptualize, plan & successfully execute** the 4 day festival
  - Responsible for **logistics** & co-ordination of hospitality team to ensure timely and efficient execution of **50+** events
  - Managed the arrangement of on-campus accommodation, catering & procurement of refreshments for **500+** participants
  - Negotiated with various vendors for the procurement of **600+** prizes & medals; implemented a **24x7 helpline facility**
- **Captain, Hostel Football Team** (April, 2017 - March, 2018):
  - **Organised** Intra-Hostel Football Tournament in "*Mahsheel*", significantly boosting overall participation in the sport.
  - Tutored the freshmen and led the hostel to secure **General Championship** for **3 consecutive years**.
  - Conducted trials for Under-Graduate and Post-Graduate students ensuring high-level participation.
- **Vice-Captain, Hostel Football Team** (April 2016 - March 2017):
  - Played key role in directing the football team of hostel to finish **3rd** in **Inter Hostel Football Tournament, 2016**
  - Catapulted hostel's performance, thus securing **1st** position in **Inter-hostel General Championship**
  - **Managed** regular practice sessions for the hostel team; procured and managed necessary equipment for the residents



# VIPUL GUPTA

## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Textile Engineering | Indian Institute of Technology, Delhi | 8.342          |
| 2015 | AISSCE, CBSE                  | Bal Niketan School, Chandigarh        | 92.6%          |
| 2013 | AISSE, CBSE                   | Manav Mangal School, Mohali           | 10/10          |

## SCHOLASTIC ACHIEVEMENTS

- **Minor Degree in Economics:** by Dept. of Humanities, IIT Delhi with 10/20 earned credits and scored GPA of 9.3/10 (2019)
- **International Publications:** Co-authored 2 papers in *Economics and Textile Technology*
  - Gupta V. et. al., 'Structural Transformation in an Open Economy with Trade in all 3 sectors', IJAMR (2018)
  - Gupta V. et. al., 'Design of Ultrafine Nanofibers/Nets for Varied Textile Applications', IJAMR (2018)
- Certification in Public Policy Analysis, Institute of Public Policy, **National Law School of India**, Bangalore (2018)
- Certification in **Public Policy Challenges**, Prof Gerry Warburg, University of Virginia, Coursera (2018)
- **Award of Excellence:** Awarded for outstanding academic performance by Manav Mangal School (2013)

## INTERNSHIPS

- **NITI Aayog, Govt. of India**, New Delhi (May, 2018 - July, 2018) : *Policy Research Intern*
  - Drafted a **policy brief** on *Agricultural Technology in India* to increase the market size of AgriTech Firms by **100%**, by 2022
  - Conceptualised a standard and uniform Intellectual Property and Innovation Policy for Indian government Universities
  - Developed a long-term **growth strategy** for India's **2 million** social enterprises; streamlined the process of evaluating social impact and proposed the establishment of a multi-tier **National Social Innovation Council**
- **Qrius** (formerly **The Indian Economist**), Off-site (Feb, 2018- May, 2018) : *Analyst, International Affairs*
  - Authored 10+ editorials on **India's foreign policy** and World affairs for Qrius (*monthly readership of 1.4 million*) Promoted to **Senior Analyst, International Affairs**, a high-level role in the organization, for exceptional research based content
- **Indian Road Safety Campaign, IIT Delhi** (July, 2017) : *AmbiVan (in collaboration with AIIMS)*
  - Analyzed hospitals and their facilities to identify existing infrastructural bottlenecks in the provided emergency services
  - Need identification and validation of the project, for developing an **app based solution** to digitize the ambulance services

## POSITIONS OF RESPONSIBILITY

- **Economics Club, IIT Delhi** (June, 2017 - May, 2018) : *Conceived 10+ national level events centered on Economics Coordinator, Corporate & Public Relations : Led 30 executives across 5 verticals*
  - Revamped the club's **knowledge portal** into an active youth deliberation platform with over **11.5k** members globally
  - Introduced the club's very first **case study** competition; Restructured the **strategy based** event Capitalist Conundrum
  - Partnered with elite **media houses** to enable the IIT fraternity to debate live on economic and public policy issues
  - Collaborated with a leading **think-tank** for a panel talk on *Significance of Asia Pacific Economic Cooperation for India Enhanced outreach of the club by hosting eminent personalities, Secretary, MHRD, Geeta Dharamrajan, Padma Shri Editor-in-Chief, Economica* : Conceptualised and established club's very **first online Editorial Forum**
  - Led the writing team in research and **content curation** for articles on national and international economic affairs
  - Contributed and edited numerous articles on economics; introduced **The Faculty Lounge** for op-eds from IITD faculty
  - Partnered with researchers and undergraduates from various reputed academic institutes to include a multitude of opinions
- **Member, House Maintenance Committee**, Girnar Hostel (July, 2018 - Present) :
  - Selected out of an electorate of over **600** students; responsible for overseeing the maintenance of the **largest hostel of IITD**

## EXTRA CURRICULAR ACTIVITIES

- **Rendezvous 2017** : Events Activity Head (May, 2017 - October, 2017)
  - Introduced street art, aerial art and adventure sports for the **1st time** in Rendezvous to **diversify** the cultural experience
  - Collaborated with a leading social club for Rendezvous' very **1st theme party**, expanding its outreach base manifold
  - Coordinated with infrastructure, hospitality and security teams ensuring a hassle-free event flow in all **4** events in OAT
- **Business Challenge** : One of the winners of the Round 2 - **P&G IT Business Challenge** (2017)
- **Public Speaking and Debating** : Participated in multiple institute level competitions
  - Extempore on Nationalism, Terrorism and Human Rights - **Human Rights Group India** (2018)
  - Freshers' Extempore - Stalwarts and Freshers' Parliamentary Debate - IIT Delhi (2016)
- **Social Endeavours** : Worked with National Association for Blind and NEEM School, Whiteswan Consulting Group
  - Volunteer, **NEEM School** (Jan, 2017-May, 2017) : **Mentored** 5 children from an urban slum imparting value education
  - Volunteer, **National Association for Blind** (July 2017) : Aided visually impaired students with their school curriculum



# VISHAL CHAND KASOTIA



## ACADEMIC DETAILS

| Year | Degree / Board                        | Institute  | GPA / Marks(%)  |
|------|---------------------------------------|--|-----------------|
| ---  | B.Tech in Textile Engineering<br>RBSE | Indian Institute of Technology, Delhi<br>Astha Academy Sr. Sec. School | 5.351<br>84.00% |
| 2014 | RBSE                                  | Nawalgarh Road , Sikar<br>GOVT SEC SCHOOL, JAJEKALAN                   | 80.83%          |
| 2012 |                                       |  |                 |

## INTERNSHIPS

- **Careers360, Hauz Khas New Delhi / Product Development Team** (May 2017 - July 2017): *Product Operation*
  - Created and curated data for the creation of AI
  - Consulted by the company to review final e-learning product in terms of its quality and learnability
  - Coordinated with research, marketing, and tech team to create online academic programs for students
  - Strategised the launch of product knockout program, a career counselling initiative aimed to educate 1+ lakhs students

## PROJECTS

- **3D drill machine (Prof. Sunil Jha)** (July 2015 - Nov. 2018) :
  - **Devised** a 3D movable drill machine which can be drill in three directions, manually and developed a prototype product.
- **Indian Road Safety campagin (Prof. Sangeeta kohli)** (Dec. 2017 - Jan. 2018):
  - Organised marathon with wide range age men and women in IITD with NGO and deal with hospitality and publicity.
  - Taught basic traffic rules, aware about road safety among school Childrens and practical knowladge at TT Park in Delhi
  - Made Documentary on ambulance system of our nation and **Design** and **Successfully** implement the idea of best Solution.
  - Organised a survey on helmet use in various places in New Delhi and Come up with a solution to give more protection.
- **Effect of Fibre Diameter On Properties Of Non Woven Fabric (Prof. Amit Rawal)** (Aug. 2018 - Present) :
  - Analysis of fiber property and Relation between fabric properties and fibre diameter keeping other parameters constant.

## TECHNICAL SKILLS

- **Programming Language:** C++, Latex
- **Other Tools & Software:** MS-Office, Autodesk Inventor, Matlab, Octave

## EXTRA CURRICULAR ACTIVITIES

- Participate in a competitive event which is Hosted by **Panasonic Smart Phones**
  - Actively Participating in the exclusive talk show on Innovation .

## COURSES DONE

Engineering Mechanics, Introduction To Chemistry, Chemistry Laboratory, Engg. Visualization & Comm., Product Realization By Manf., Linear Algebra & Diffe. Equa., Profe. Ethics & Social Resp., Introduction To Engineering, Language & Writing Skill, Intro. To Computer Science, Intro. To Electrical Engg., Calculus, Profe. Ethics &social Resp.-2, Language & Writing Skill-2, Electromagnetic Waves&qua.mec., Physics Laboratory, Intr.to Material Sc. & Engg., Experimental Methods, Environmental Science, Electromagnetic Waves&qua.mec., Textile Fibres, Introduction To Textile Tech., Mechanics Of Solids And Fluids, Intro. To Biology For Engineer, Structure & Physical Propertie, Yarn Manufacture I, Fabric Manufacture I, Tech. Of Text. Preparation & F, Yarn Manufacture Laboratoryi, Fabric Manufacture Lab. - I, Tech. Of Tex. Pre. & Fin. Lab., Industrial Biomaterial Technology, Social And Political Philosoph, Manufactured Fibre Technology, Yarn Manufacture li, Fabric Manufacture li, Tech. Of Textile Coloration, Yarn Manufacture Lab li, Fabric Manufacture Lab li, Tech Of Textile Coloration Lab, Intro. To Computer Science, Fundamentals Of Language Sciences, Minor Design Project - I, Seminar Course-v, High-dimensional Biology, Evaluation Of Textile Material, Theory Of Textile Structures, Speciality Yarns And Fabrics, Design Of Exper. & Stat. Tech., Manufactured Fibre Techno. Lab, Evaluation Of Textiles Lab

## SCHOLASTIC ACHIEVEMENTS

- **Participate in District level Cricket Competition:**
  - Served as Team Captain
  - Got 1st Position



# WAGHMARE ADITYA PRAMOD



## ACADEMIC DETAILS

| Year | Degree / Board  | Institute                             | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| ---  | B.Tech in Textile Engineering                               | Indian Institute of Technology, Delhi | 7              |
| 2015 | HSC ,Telangana State Board of Intermediate Education(TSBIE) | Guru Junior College                   | 95.6           |
| 2013 | SSC, Maharashtra State Board of secondary Education Pune.   | Sacred Heart Convent high school.     | 90.5           |

## SCHOLASTIC ACHIEVEMENTS

- Co-authored Waghmare A. et. al., 'Structural Transformation in an Open Economy with Sectoral Trade', IJARIIT (2018)
- Qualified **National Defence Academy (NDA)** examination by UPSC Delhi; selected for *Personal Interview-PI* (2015)
- Awarded **Certificate of Merit Distinction** in *Australian national chemistry quiz* among Australia and 17 countries (2013)
- Awarded **Prize of consolation** in *Maharashtra Talent Search Examination* held in 1600+ schools all over Maharashtra (2012)
- Awarded *certificate of distinctive performance* in **International math Olympiad(IMO)**among all global candidates (2012)
- Awarded *certificate of distinctive performance* in **National science Olympiad(NSO)**among all appearing candidates (2011)

## COURSES DONE

Engg. Visualization & Comm., Experimental Methods, Microeconomics, Mechanics Of Solids And Fluids, Operations Management, Applied Statistics For Textile Engineers, Organization And People Management, Design Of Exper. & Stat. Tech.

## TECHNICAL SKILLS

- Programming Languages:** C, C++, Java **Softwares:** Autodesk Inventor, Adobe Photoshop, Auto CAD, Minitab, Matlab

## INTERNSHIPS

- Bombay Textile Research Association, Mumbai:X-ray Diffractometry|Dir:Dr.Anjan.K.Mukhopadhyay(Jun 2017 - July 2017)**
  - Executed **Java code** for computation of **Herman's orientation factor and % crystallinity** of PET for industrial application
  - Diagnosed irregularities of *Azimuthal scans and Herman's orientation factor* values from literature review data
- Bombay Textile Research Association, Mumbai:Conductive Textiles|Sci.Smita Deogaokar(May 2017 - Jun 2017)**
  - Experimented with various fabric structures to understand their role towards *conductivity* on prototype **lab jigger machine**
  - Surveyed literature and *analyzed alternative techniques* as against the current well established *In-situ* process

## PROJECTS

- Case Study:Factors affecting Organizational Culture|Prof:Shuchi Sinha (March,2018-Apr,2018)**
  - Led team of 5 members to analyse *organizational culture and behaviour* of leading firms such as Apple,Starbucks,Amazon etc
  - Presented various **leadership styles** within organizations that affects the **workplace culture** and behavior of individual and group
- Entrepreneurship Course|Prof:P.V.M Rao (Jan,2018-Feb,2018)**
  - Independently formulated a **Business canvas model** of a food delivery start-up and published *Youtube video* presenting it
  - Gained insights into various innovative *Start-ups solving real life problems* by attending 14 sessions by eminent entrepreneurs
- Case Study: Production of Frozen Peas|Prof:Jitendra Madan (Oct,2017-Nov,2017)**
  - Led team of 5 members to analyse operations of a manufacturing firm and applied principles for **effective operations management**
  - Designed new operations plan which was effective to solve the **bottlenecks** and *freezer capacity delays* on assembly line
- Ornithopter Workshop | Prof: P.V.M Rao (Oct, 2015 - Nov, 2015) :**
  - Designed Ornithopter using *Aero-modelling and aerodynamics* principles taught in workshop by **Aeronautics Department IIT Kanpur**
  - Led team discussion on various *process optimizations* and *modification ideas* and executed them successfully on the design

## POSITIONS OF RESPONSIBILITY

- House Working Committee,Girnar Hostel (July,2018-July,2019)**
  - Nominated for HWC from over 800 residents and framed policies for **efficient management of the hostel** and surrounding area
  - Inspected and audited all Hostel fund accounts and conceptualized the first-ever **Alumni Fund** for the hostel and its establishment
- Economics Club executive publicity department (July, 2016 - July, 2017) :**
  - Publicized and organized *Youth Parliament-17, Capitalist conundrum, Mockstock,Economics summit* etc in annual fest Economix-17
  - Publicized events and Guest lectures on various online and offline medias like *Posters, Facebook,Instagram,Linked-in* etc

## EXTRA CURRICULAR ACTIVITIES

- Activity Head Publicity department Tryst-17(Annual technical fest) (Oct, 2016 - Mar, 2017) :**
  - Designed Tryst-17 wikipage and organised various events like Monday Maniac, Minutes to win it, Tag your friend etc
  - Led 50+ Campus Ambassadors across 1000+ colleges for conducting events like RoboWar, Startup Conclave,Drone war etc



# YOGESH KUNDALWAL



## ACADEMIC DETAILS

| Year | Degree / Board                | Institute                             | GPA / Marks(%) |
|------|-------------------------------|---------------------------------------|----------------|
| ---  | B.Tech in Textile Engineering | Indian Institute of Technology, Delhi | 6.606          |
| 2014 | RBSE                          | Krishna vidya mandir Sikar            | 74.60%         |
| 2012 | RBSE                          | Shree shyam school , Gurara           | 75.83%         |

## PROJECTS

- **Software design for Optimised Loom allocation (Prof. Dipayan Das)** (May 2017 - Dec. 2017)
  - Developed **mathematical model** for optimising loom allocation as a function of warp & weft breakage and repair times.
  - Designed a software in visual studio to calculate loom allocation for a given no. of looms, weaver efficiency & other parameters.
- **Autonomous Aerial Vehicle Design (Prof. Supreet Singh Bahga, Prof. Amit Gupta)** (May 2017 - Present) :
  - Designed a 1500 gm thrust generating, autonomous four rotor drone including mechanical and electrical frameworks.
  - Automated drone to **manoeuvre & hover** above **preset coordinates** using Pixhawk IC & ArduPilot software interface.
  - Customised and demonstrated the drone for application in wireless charging as a part of PhD project in IIT Delhi.
- **Development of novel Cooling Jacket (Prof. R. Chattpadhyay)** (June 2018 - Present) :
  - Developed a smart textile for performance in high temperatures using Peltier effect and Liquid Nitrogen based cooling.
  - Successfully demonstrated the concept of cooling by Liquid Nitrogen through circulation in the fabric for the first time.
  - Increased the insulating properties of the fabric by incorporating several aluminized and silver coated layers.
- **Development of novel Airbag Belt (Prof. Bipin Kumar)** (May 2018 - Present)
  - **Designed** and **fabricated** an innovative 'Airbag Belt'; a wearable safety device for pregnant ladies and senior citizens.
  - Designed a Sodium Azide & Potassium Nitrate based Nitrogen inflator for the belt to prevent accidental trauma.
  - Currently working on integration of inflator with belt and development of experimental set up for testing the performance.
- **Design of Portable Picnic Table (Prof. Sunil Jha)** (Sept. 2015 - Nov. 2015)
  - Designed and manufactured a DIY portable, lightweight foldable picnic table with several customisable features.
  - Implemented CAD model and iterated the dimensions for minimum stress in all configurations using Autodesk Inventor.
- **Kinematic and Dynamic Analysis of Spinning Wheel (Prof. R. Chattpadhyay)** (July 2018 - Present) :
  - Developing a mathematical model for kinematic chain of parallel 6 drive spinning wheel with true dimensions.
  - Currently developing MATLAB code for simulating kinematics of the wheel with focus on dynamic study.

## POSITIONS OF RESPONSIBILITY

- **Co-Overall Coordinator of Aeromodelling Club** (April 2018-Present)
  - Secured 3rd position in Radio Controlled Aircraft design competition among 12 participating teams in Tryst'18 - IITD.
  - Supervising independent projects undertaken by the sophomores and juniors present in the club.
  - Drafted the "Budget Plan" for the semester-1 of 2018-19 and "Timeline of Events & Activities of the club."
- **Flying-Coordinator of Aeromodelling Club** (April 2017-April 2018)
  - Designed, fabricated and successfully flew 15+ different types of Radio Controlled trainer & acrobatic aircrafts.
  - Organised flying sessions for freshers to teach and guide them in piloting of radio-controlled planes.
- **Student Coordinator for 4th & 5th Annual Boeing IIT-National Aeromodelling Competition**(April 2017 & April 2018)
  - Member of a team of 4 Student Coordinators, handled the Infrastructure, Hospitality of the event with around 40 participants from various parts of India.

## TECHNICAL SKILLS

- **Programming Languages:** Basic C , C++, MATLAB, Python, HTML
- **Softwares:** Autodesk Inventor, Adobe Premier Pro, Adobe Photoshop, CorelDraw, Javafoil, SolidWorks

## COURSES DONE

Electromagnetic Waves&qua.mec., Experimental Methods, Mechanics Of Solids And Fluids, Numerical Methods In Chemical, Product Design And Development, Production & Operations Mgmt, The Earth`s Atmosphere: Physical Principles

## EXTRA CURRICULAR ACTIVITIES

- **Aeromodelling Club-IIT Delhi**
  - Organized "Glider Design Challenge" (Tryst'17 & '18) and "RC Aircraft Competition" (Tryst'17) with around 30+ teams.
  - Set a stall in Tour of stalls for fresher's orientation which Director of IITD had visited and appreciated.
  - Represented IIT Delhi in **Boeing-IIT national aeromodelling competition** in IIT B in Dec 2016, 17 & Qualified first round (Secured Top 30 among 80 teams) in IIT M zonals in Jan 2018.
- **Activity Head, Security, Rendezvous 2017 :**
  - Lead and Managed team of 6 members to manage security of big night concert of Rendezvous-2017.