



SARTHAK YADAV



ACADEMIC DETAILS

Year	Degree / Board	Institute	GPA / Marks(%)
---	B.Tech in Chemical Engineering	Indian Institute of Technology, Delhi	7.945
2017	AISSE, CBSE	Nav Uday Convent Sr. Sec. School	92.2%
2015	AISSE, CBSE	Raath International School	10/10

SCHOLASTIC ACHIEVEMENTS

- **Joint Entrance Examination (JEE) Mains:** Secured **99.48** percentile among 1.2 million participants (2017)
- **Joint Entrance Exam(JEE) Advanced:** Secured **97.04** percentile among 160 thousand participants (2017)
- Received **Letter of Appreciation** in class X from **Minister, Human Resource Development, Government of India** (2015)
- **Olympiad:** Awarded **Certificate of Excellence**, National Genius Search Examination [Mains], **97.7** percentile (2009)

TECHNICAL SKILLS

- **Programming Languages:** C, MATLAB, Python, Dart, Java, HTML, CSS; **Softwares:** ANSYS, LaTeX, Flutter, Simulink

PROJECTS

- **Viscous Flow through a horizontal capillary:** *Prof. Jyoti Phirani* (Jan, 2019 - Apr, 2019)
 - Utilized **ANSYS Fluent** to simulate flow of water through a horizontal capillary open to air using **multiphase** model
 - Implemented *continuum surface stress* model for Surface Tension Modelling; the results were verified by Washburn equation
- **Design of PID control systems using various controller tuning relations :***Prof. H. Kodamana* (Oct, 2019 - Nov, 2019)
- **Ergun/Carman-Kozeny equations discrepancy review :***Prof. Vikram Singh* (Oct, 2019 - Dec, 2019)
 - Reviewed research papers and books to definitively conclude the reason for deviation at low Re numbers
- **Chess for Visually Impaired:** *Prof. P. M. Pandey* (Jan, 2018 - May, 2018)
 - **Developed Chess for Blind** using acrylic sheet to create textured squares of chessboard & created magnetized chess pieces
 - Used 2D **Laser Cut** parts to make 3D chess pieces made from *Balsa wood* and *Acrylic* for **varied texture**
 - Employed spring door pushers to make a mechanism to **add pause functionality** to the game of chess
 - Project applauded for **innovative ideas** and kept on **display** in Central Workshop, IIT Delhi
- **Automation of lab data processing:** *Prof. Jyoti Phirani* (Jun, 2019 - Jul, 2019)
 - Developed **Windows Batch** and **Python** scripts to process raw data from experiments using Open Source Software xsv
- **Operational Amplifier (op-amp) Tester:** *Prof. Shankar Prakriya* (Sept, 2017 - Oct, 2017)
 - Designed a simple circuit to test the **proper functioning** of **IC-741** to ensure smooth workflow in the course ELL100

POSITIONS OF RESPONSIBILITY

- **Core Team Member, Wellness Club, BRCA, IIT Delhi** (April, 2019 - Present)
 - **Overall Coordinator, International Day of Yoga -19, IIT Delhi:** Managed a team of **20** to organize a 9-day **YOGAFEST**
 - Organized 6 workshops spread over 9 days with over 150 participants to promote Wellness activities in daily routine
 - Organized 6 events on International Day of Yoga -19 throughout the day with over **700** participants
- **Team Member, Wellness Club, BRCA, IIT Delhi** (April, 2018 - March, 2019)
 - Organized Mindfulness Meditation Workshop & weekly Heartfulness Meditation Sessions during the semester
 - Anchored for Talk by Swami Mukundananda with 250 attendees; Organized talks by renowned speakers like Sister Shivani
 - Designed animated video for Wellness Club for BRCA orientation using VideoScribe for an audience of **750 freshers**
- **Mentor, Board for Student Welfare** (July, 2019 - Present)
 - Mentoring and guiding **6 first-year students** with their academic and non-academic issues faced throughout the year
- **Tryst, Annual Technical Festival, IIT Delhi -19:** Publicity Activity Head (Feb, 2019 - March, 2019)
 - Helped in managing online publicity to reach the goal of **100 thousand likes** on the Tryst, IIT Delhi Facebook page
 - Visited DTU campus during 'Engifest' to promote Tryst in a team of 6; Helped manage and guide attendees during Tryst

EXTRA CURRICULAR ACTIVITIES

- **Rancho Labs:** Part of the startup and the initiative to impart technical & innovative education to school students
- **Social Endeavors: NSS, IIT Delhi: "Not me but you"**
 - **Vidya Teaching Project:** Regularly volunteered to teach middle and high school students in Kendriya Vidyalaya
 - **Old Age Home Project:** Regularly volunteered to visit senior citizens living in Old Age Homes near IITD campus
- **YES+:** Completed the Youth Empowerment and Skills workshop for self development by The Art of Living organization



SARTHAK YADAV



IIT COURSE

Degree

B.Tech in Chemical Engineering

Institute

Indian Institute of Technology, Delhi

GPA

7.945

COURSES DONE

Numerical Methods In Chemical, Chemical Reaction Engg I, Intro. To Computer Science, Calculus, Linear Algebra & Diffe. Equa.