

# Ayush gupta

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## Academic Details

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- **Dual Degree(Btech + Mtech) in Computer Science and Engineering**, *Indian Institute of Technology*, Delhi, CGPA - **9.23/10**.
- **Secondary School Certificate (SSC)-2014**, **Maharashtra State Board**, Dinanath High School, Nagpur, **90%**.
- **Indian Certificate of Secondary Education Examination-2012(10th Grade)**, Seventh Day Adventist High School, Nagpur, **90.3%**.

## Courses Done

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- **COMPUTER SCIENCE**
  - Discrete Mathematics, Data Structures and Algorithms, Digital Logic & Design, Introduction to Computer Science.
- **MATHEMATICS**
  - Linear Algebra & Differential Equations, Probability and Stochastic process, Calculus.
- **Other Courses**
  - Fundamentals of Electrical Engineering, Engineering Mechanics, Product Realization by Manufacturing, Quantum Chemistry, Optics and Electromagnetic waves.

## Projects

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- **Mini Search Engine**: Course project under Prof. Amitabha bagchi
  - It maintained an **Inverted Page Indexing** of the webpages which increased the search speed and gave Results based on the order of relevance of the query. **Hash-Maps** and **AVL trees** were used and implemented in Java.
- **Sudoku Game and Sudoku Solver ([www.sudokuiitd.appspot.com](http://www.sudokuiitd.appspot.com))**: Course Project under Prof. Huzur Saran
  - It generates random sudokus under the three levels; **Solver can solve any Sudoku** with the initial given configuration and Each level had a Timer with Score, Reset and Showing solution capability.
  - Technologies used: Google App Engine, Bootstrap, Javascript, HTML, CSS.
- **Naïve Bayes Text Classifier**: Course Project under Prof. Parag Singla
  - Implemented the **Naïve Bayes Algorithm** by training on a set of Articles and then Predicted other Articles with **90% Accuracy**.
  - The Articles could belong to 8 categories and the implementation was done in Java.
- **Carrom Board Simulation Game**: Course Project under Prof. Preeti Ranjan Panda
  - Sticker had **variable initial trajectory** could have **Oblique collisions** with the coins, friction was also incorporated.
  - Technologies used : **C++, Glut Library**.
- **Campus Rover(Online Catalog of places inside IIT Delhi)**: Summer Project under Prof. Subhashis Banerjee
  - It contained map of IIT Delhi in Detail; **Each Place had its own Page** (similar to wikipedia) which people can edit and add photos.
  - It was implemented using the usual web languages and also used **Google Maps API**.

- **Court Kacheri:** Web Application made in Hackathon Organised by Nutanix
  - Portal to connect the **Lawyers and Clients**, Lawyers could make their profile and search for cases ;Clients could find lawyers and post their cases.It used Restful API's with MySQL database.
  - It used **Restful API's** for fetching and putting information in the Mysql Database.

## SCHOLASTIC ACHIEVEMENTS

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- Represented India and bagged **Bronze medal** at the **Asian Physics Olympiad** held at Singapore.
- **IIT Delhi semester merit award** for being in the top 7 percent for the first semester.
- Secured **All India Rank 99** in **JEE Advanced** amongst more than 500,000 candidates
- Awarded with **KVPY fellowship**; **Ranked #14** in KVPY SA Stream, Conducted by Dept. of Science and Technology, Gov. of India.
- **Awarded with Gold Medal** and Certificate of merit for being among the top 35 in the country in **Indian National Physics Olympiad (INPhO)**.
- **Awarded with Gold Medal** and Certificate of merit for being among the top 35 in the country in **Indian National Chemistry Olympiad (INChO)**.
- Secured **All India Rank 2** in Special Class Railway Apprentice (SCRA)-2014 conducted by **UPSC, Govt. Of India**.

## TECHNICAL SKILLS/INTERESTS

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- **Programming languages:** C++,Java,Python,VHDL,PHP,HTML,CSS,JavaScript,Bootstrap,Jquery.
- Interested in **Algorithms,Machine Learning ,Artificial Intelligence,Cryptography**.
- **Softwares:** Autodesk Inventor,Xilinx, Adobe PhotoShop , Adobe Indesign , LTSpice.
- Worked on Codeigniter Framework and MySQL Database.

## POSITION OF RESPONSIBILITY

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- **Technical Editor** of the Board of Student Publication,IIT Delhi
  - Designed the Fresher's magazine(Inception), Tech. magazine(Sync) and Newsletter.
  - Worked for the designing team of Literati Fest (Biggest Literature fest of India).
- **Content Mangement Executive** at Alumni Association and International Programme
  - Wrote Article On the Silver Reunion and Facebook posts for Sarthy Startup.
- **Hostel Representative** for Hindi Samiti Club
  - Held Hostel Practises and made Questions for Comp. Events.

## EXTRA CURRICULAR ACTIVITIES

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- **Competitive Coding**
  - Came 2<sup>nd</sup> in the Import Frosh Coding Contest of IIT Delhi Freshers.
  - Qualified for the 2nd Level of Snackdown Contest Of Codechef by being in the top 500 teams in the World.
  - Competed in a team of 2 in algorithm contest "Algorythm" at Tryst 2015, IIT Delhi, securing 3rd position.
- **Economics**
  - Came 3rd in Mock Stocks Event of Economics Club in Tryst Fest IIT Delhi.
  - Came 1st in Rev It Up contest at Economics fest(Das Capitol) of St.Stephens College.