

Ayush gupta

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Academic Details

B.Tech + M.Tech in Computer Science and Engineering
Indian Institute of Technology, Delhi
CGPA : 9.235(updated on July 2015)
Expected 2014-2019

Relevant Courses Done

COMPUTER SCIENCE

Discrete Mathematics (Contained Basics of Cryptography, Coding Theory and Graph Theory)
Data Structures and Algorithms, Digital Logic & Design, Introduction to Computer Science.
Machine Learning*, Computer Architecture*, Programming Languages*

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.
*to be completed by summers

SCHOLASTIC ACHIEVEMENTS

- Secured **All India Rank 99** in **JEE Advanced** amongst more than 500,000 candidates
- Represented India and bagged **Bronze medal** at the **Asian Physics Olympiad** held at Singapore.
- 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**.
- Secured **All India Rank 1** in ResoStart conducted by Resonance Eduventures amongst 50,000 students.

Projects

- **Mini Search Engine**
 - 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.sudokuindia.appspot.com
 - 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**
 - Implemented the Naive 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**
 - Sticker had variable initial trajectory could have **Oblique collisions** with the coins, friction was also incorporated.
 - Technologies used: C++, Glut Library.
- **Court Kacheri**
 - 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.

TECHNICAL SKILLS/INTERESTS

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

POSITION OF RESPONSIBILITY

- **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

- **Competitive Coding**
 - Came 2nd 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.