

PRAKHAR KUMAR

Computer Science and Engineering
Indian Institute of Technology Delhi

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ACADEMIC DETAILS

2015-2019 (current) Bachelor of Technology in Computer Science and Engineering at Indian Institute of Technology, Delhi.

CGPA: 9.64/10

Department Rank: 5

SCHOLASTIC ACHIEVEMENTS

- Achieved **Institute Rank 2** amongst 850 students at the end of first year. (**CGPA: 9.941 after first year**)
- **Semester Merit Award** Consistently among the **top 7% students** in the computer science batch from 2015.
- **All India Rank 722** in Joint Entrance Examination (JEE Advanced-2015) amongst 150,000 candidates.
- Secured **54th rank** in the Kishore Vaigyanik Protsahan Yojana (KVPY) 2014, SX Stream, amongst 100,000 candidates.

RELEVANT COURSES

• **Computer Science**

Data Structures and Algorithms(COL106), Discrete Mathematical Structures(COL202), Analysis and Design of Algorithms(COL351), Artificial Intelligence(COL333), Computer Network(COL334), Digital Logic & System Design(COL215), Programming Languages(COL216), Computer Architecture(COL216), Design Practices(COP290), Introduction to Computer Science(COL100), Machine Learning(COL)*, Operating Systems(COL)*, Parallel and distributed programming(COL)*, Database Management Systems(COL)*, Theory of Computation(COL)*.

• **Mathematics and Electrical Engineering**

Abstract Algebra(MTL105), Probability Theory& Stochastic Processes(MTL106), Calculus(MTL100), Linear Algebra & Differential Equations(MTL101), Signals and Systems(ELL205), Introduction to Electrical Engineering(ELL100).

**Courses currently pursuing*

ACM ICPC 2016:

Team (Dark_Matter) **Ranked 196 out of the 2900 teams** who participated from all India, in online round.

Selected for **ACM ICPC Asia Amritapuri Onsite Regionals Contest-2016** and **Ranked 170** in Amritapuri site .

TECHNICAL SKILLS

- **Programming Languages:** C++, Python, C, JAVA, Ocaml, Prolog, VHDL, ARM Assembly Language, HTML.
- **Programming Environments:** Eclipse, Xilinx ISE Design Suite(VHDL), LaTeX.

PROJECTS DONE

• **Image morphing using triangulation**

Introduction to Computer Science Course Project

Prof. Preeti Ranjan Panda
(C++)

Wrote a program for image morphing using OpenCV. The images were triangulated using the input points. And

intermediate images were combined to make a video.

- **Multi threaded stock exchange**

Data Structures and Algorithms course project

Prof. Amitabha Bagchi
(JAVA)

Made a stock exchange which executed the input queries, and there are three independent threads which function independently.

- **Mobile phone tracking system**

Data Structures and Algorithms course project

Prof. Amitabha Bagchi
(JAVA)

Made a mobile phone tracking system using a hierarchical call routing structure. Made the data structure for central server that routes the phone calls.

- **A small search engine**

Data Structures and Algorithms course project

Prof. Amitabha Bagchi
(JAVA)

Made a search engine which takes web pages as input and performs queries like finding words and phrases using Inverted Index.

- **Currency Exchange**

Digital Logic & System Design course project

Prof. Anshul Kumar
(VHDL)

Made a currency exchange in VHDL, it takes amount and input currency and outputs the denominations in output currency. Used 2×16 LCD for display.

- **Solving Multiprocessor Scheduling Problem**

Research project

Prof. Naveen Garg
(Python)

Made a . Used .