PRATEEK CHAUDHURY

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EDUCATION

Indian Institute of Technology, Delhi *July 2019 - Present*
Bachelor of Technology Department of Computer Science
CGPA: **9.6**

SAI Internatinal School, Odisha *May 2017 - May2019*
Senior High School
Percentage: **94.8%**

SCHOLASTIC ACHIEVEMENTS

Top 7% in IIT Delhi: Awarded top 7% merit award in 2019-20 at IIT Delhi

JEE Advanced Rank 83: Ranked 83 amongst 161,000 candidates.

JEE Mains Rank 26: Ranked 26 amongst 1.15 million candidates.

KVPY Fellowship: Awarded KVPY Fellowship by securing AIR 56.

NSEA,NSEP,NSEC: Qualified NSEA, NSEP, NSEC to secure 1st, 3rd, 2nd position in the state in INAO, INPHO, INCHO, respectively, which are precursor to the prestigious IAO, IPHO, ICHO respectively.

NTSE Scholar: Awarded NTS scholarship by NCERT in the year 2017 being amongst the top 1000 students across India.

RELEVANT COURSES

Computer Science
Introduction to computer science, Numerical computation and data science, Data Structures and Algorithms, Discrete mathematical structures, Digital logic and system design, Programming languages*, Computer Architecture*

Mathematics and Electronics
Multi- variable Calculus, Linear Algebra and Differential Equation, Probability and Stochastic processes, Introduction to electrical engineering engineering, Signals and Systems

From CourseEra
Deep Learning Specialization by Andrew Ng (5 courses)*

(* courses to be completed by April 2021)

PROJECTS

Multi-modal deep-learning for NLP December 2020 - continuing
Prof. Srikanta Bedathur, IIT Delhi

- Collecting images and text related to COVID19 from Wikipedia dumps. Then, parse through the collected data and structure it for the next step.
- Build a suitable algorithm to train our own word embedding.
- Finally, will use the trained word embedding to create a COVID19 specific search engine.

Dynamic memory allocator November 2020 - December 2020
Prof. Rahul Garg (Course project-COL106)

- Created a system to perform dynamic memory allocation by implementing the following data structures in java.
- Implemented a doubly linked list first and then a Binary Search Tree to allocate memory.
- Finally, made the implementation of the AVL Tree to allocate memory very efficiently.

Digital clock November 2020 - December 2020
Prof. Anshul Kumar (Course project)

- Designed a digital clock based on BASYS3 FPGA board in VHDL language.
- Time is displayed on 7-segment display and consisting of different modes and functionalities.

Simple image processing using python October 2019 - November 2019
Prof. Huzur Saran (Course project-COL100)

- Edge detection algorithm.
- Implementing an algorithm that finds a path from top of the image to the bottom which has the least energy.
- Averaging filter.

TECHNICAL SKILLS

Languages: Python, C++, C, Java, CSS, HTML, VHDL

Framework: Autodesk Inventor, Android Studio, Github, LaTeX

Operating System: Mac OS, Windows, Ubuntu

EXTRA-CURRICULAR ACTIVITIES

- Worked as a JEE Mentor for 3 students in a non-proft initiative **Quaran-Teach** which had 300+ students across the country.
- Represented my hostel in basketball in IIT Delhi general championship.

POSITION OF RESPONSIBILITY

- **ISC representative** *(ISC, IIT Delhi)*
  Selected as one of the 13 representatives of the indoor sports club at IIT Delhi since spring of 2020.