DIVYANSHU BHARDWAJ

SOPHOMORE UNDERGRADUATE • MATHEMATICS AND SCIENTIFIC COMPUTING

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EDUCATION

Indian Institute of Technology Kanpur	*July 2018 - April 2022[Expected]*
Sophomore Undergraduate	Overall CGPA: 9.1/10(Currently)
Mathematics and Scientific Computing	

Kendriya Vidyalaya Dogra Lines Meerut	*May 2018*
All India Senior School Certificate Examination	Percentage: 96%

Kendriya Vidyalaya Air Force Station Salua	*May 2016*
All India Secondary School Examination	CGPA: 10/10

TECHNICAL STRENGTHS

Programming Languages	C, C++, Python, Java, JavaScript, Ruby, Haskell
Web Development	HTML, CSS, JavaScript, Django, Ruby on Rails, MySQL, MongoDB
Utilities	Git, MATLAB, Latex, Android Studio, Bash, Selenium

PROJECTS AND EXPERIENCE

Fully Homomorphic Encryption Library   May 2019 - Present
Programming Club IIT Kanpur

· No efficient algorithm for practical use is available as of now.
· Part of a team that is working on a library with faster implementation of FHE to make it practical for use.
· Read and implemented two different algorithms of FHE in C++.
· Finding new algorithms and optimizing the currently existing algorithms.

Life@IITK   May 2019 - Present
Programming Club IIT Kanpur   *https://github.com/life-iitk*

· Created a web and mobile app from scratch which is used by students to keep track of all the events happening in campus of their interest removing the unnecessary spamming of mail which was a big problem.
· Used Django for backend and React for frontend.
· Won best project in socially relevant category among projects from various clubs.

Haskell Scrabble Solver   May 2019 - July 2019
Self Project   *github://d1vyanshu/Haskell-scrabble-solver*

· Learnt the concepts of functional programming through Haskell, one of the most widely used functional programming languages .
· Deep dived into the concepts of Type theory, Currying , Recursion, Immutability, File Systems, Pattern Matching and Laziness of Haskell.
· Made a Scrabble Solver in Haskell (A Two Player version and a Play with Computer version) which used Lexicographical Search, Regex-type functions(written from scratch) and Quick Sorts as the major algorithms

Summer of Code   May 2019 - July 2019
Department of Computer Science and Engineering IIT Kanpur   *github://d1vyanshu/mymoney*

· Received intensive training on technologies used in full-stack development.
· Worked in team of five and developed android app which parses messages and keeps record of various expenses and help stop over expenses.
· Won 2nd prize out of 23 projects.

ACADEMIC ACHIEVEMENTS

2019 - **Academic Excellence Award**, for exceptional academic performance in freshman year.

2018 - **All India Rank 697**, Joint Entrance Examination(Advance) among 200,000 candidates.

2018 - **All India Rank 217**, Joint Entrance Examination(Mains) among 1.5 million candidates.

2018 - **KVPY Scholar**, Indian Institute Of Science Bangalore, India. (All India Rank 30)

2017 - Stood in State **Top 1%** in Chemistry and Physics Olympiads organized by IAPT. (Prelims for International Olympiads)

RELEVANT COURSES

Set Theory and Mathematical Logic	Linear Algebra
Data Structures and Algorithms	Fundamentals of Computing
Calculus and Analytic Geometry	Ordinary Differential Equations

POSITION OF RESPONSIBILITY

Programming Club IIT Kanpur   January 2019 - Present
Secretary   *IIT Kanpur*

Responsible for conducting activities and competitions for campus community and conducting lectures and workshops on different topics.

Counselling Service IIT Kanpur   April 2019 - Present
Academic Mentor   *IIT Kanpur*

Responsible for providing academic help and support to incoming freshmen. This includes helping them with studies and guiding them to make their transition from school to college fun and stress free.

Games and Sport Council   January 2019 - Present
Secretary, Web   *IIT Kanpur*

Responsible for maintaining the council website and suggest plans to increase reach of council online.