

# SOPHOMORE UNDERGRADUATE · ELECTRICAL ENGINEERING Indian Institute of Technology Kanpur, India

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### Education

**Indian Institute of Technology Kanpur** 

Bachelor of Technology, Electrical Engineering · CGPA: 8.7 / 10.0 2018 - 2022 (exp.)

**National Public School Indiranagar** 

Bangalore, India

CBSE BOARD · SCHOOL TOPPER AMONG ALL STREAMS · SCORE: 97.4%

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2016

Kanpur, India

Baldwin Girls' High School

ICSE EXAMINATION · SCHOOL TOPPER · SCORE: 97.8%

angalore,

### Honors & Awards

#### **ACADEMIC**

2018	All India Rank 1299, Joint Entrance Examination (Advanced)	India
2018	All India Rank 626, Joint Entrance Examination (Main)	India
2017	All India Rank 101, Kishore Vaigyanik Protsahan Yojana, Indian Institute of Science	Bangalore, India
2013	International Rank 2, International Cyber Olympiad, SOF Organisation	India
2013	International Rank 23, International Mathematics Olympiad, SOF Organisation	India

#### CO-CURRICULAR

2015	The Young Scientist of the Year, received from Late Dr. APJ Abdul Kalam	Bangalore, India
2016	Best Vice Captain Award, Baldwin Girls' High School	Bangalore, India
2014	City Topper, The Times NIE Think and Learn Challenge	Bangalore, India
2012	National Rank 2, Max Life Insurance iGenius Scholarships among 1 lakh students	India

# Work Experience

#### **CSE@IITK Summer of Code**

IIT Kanpur, India

PARTICIPANT · FULL STACK DEVELOPER

May 2019 - Jul. 2019

- Built a centralized inventory and finance tracking **Smart Purchase App** for the NGO Vitraag Vigyaan.
- Developed a full stack web application using the MERN stack.
- Worked primarily on the frontend using ReactJS.

**Infosys, Ltd.**Bangalore, India

STUDENT INTERN · SPARK CATCH THEM YOUNG PROGRAM

April 2014

- Topper of a batch of 40 students, selected from over 1000 candidates from top 250 schools in Bangalore.
- Gained industrial exposure to theoretical aspects and practical applications of Cloud Computing, Software Development Methodology Analysis,
  Databases, Web and Mobile Application Development and Software Testing.
- Learnt skills such as Advanced Office functions, Visual Studio and Adobe Photoshop.

#### **Technovation Challenge**

Bangalore, Indic

PARTICIPANT · INTERN · HEAD OF PROGRAMMING

Feb. 2014 - Jul. 2014

- Mentored by Vice President and Manager of **Goldman Sachs** as an intern there, sponsored by **Iridescent Ltd.** and **WeTech** as a part. of the **Clinton Global Initiative**.
- Led team of 5 to build and deploy mobile app developed using MIT App Inventor 2 and Google Fusion Tables.
- · Designed to help high school girls explore different career options through a virtual game setting.
- · Presented the application, business plan and implementation vision at the Regional Pitch Event in Bangalore.

# **Projects**

Life@IITK IIT Kanpur

Programming Club, IIT Kanpur · 🧿 Life-IITK

May 2019 - Jul. 2019

- Developed a unified web app for activities, updates and personal scheduling including individual academic and non-academic student-body updates on campus
- Front-end developed using ReactJS for web-app and React Native for mobile app

APRIL 21, 2020 TANVI AJAY NERKAR · CURRICULUM VITAE

#### **Envy-free Hostel Room Allocation App**

Course Project under Prof. Swaprava Nath · • Fair Rent Division

Feb. 2019 - Apr. 2019

IIT Kanpur

- Developed an application to find a fair and envy free room and price allocation for a hostel.
- · Implemented the Hungarian Algorithm to find a maximum weighted bipartite matching using Python libraries.
- · Based on an algorithm implemented on Spliddit which yields the same results as the application developed.

**AirHockey** Sep. 2017 - Nov. 2017

PROJECT FOR COMPUTER SCIENCE, AISSE 2018 · 

AIRHOCKEY

- Developed the game Air Hockey using pygame in Python.
- Incorporated friction as a component to enable user to play against computer.

### Skills

Python, C, C++, Java, Javascript Languages

Libraries Tensorflow, spaCy, NumPy, pandas, pygame

Web ReactJS, NodeJS, MongoDB, ExpressJS, Ruby on Rails

Utilities Git, LTFX, MATLAB, GNU Octave

## **Relevant Coursework**

Microelectronics<sup>i</sup> Control System Design and Analysis<sup>i</sup> Signals, Systems and Networks Introduction to Power Systems

Probability and Statistics<sup>i</sup> Linear Algebra Ordinary & Partial Differential Egns Real & Complex Analysis

Foundations of Cognitive Science Bilingualism<sup>i</sup> Language and Society Introduction to Literature<sup>i</sup>

# **Positions of Responsibility**

2019-20	Student Guide, Counselling Service	IIT Kanpur
2019-20	Academic Mentor, Counselling Service	IIT Kanpur
2019-20	Secretary, Programming Club	IIT Kanpur
2019-20	Secretary, English Literary Society	IIT Kanpur
2015-16	House Vice Captain, Baldwin Girls' High School	Bangalore, India

# Miscellaneous

- Efficiency Trophy for Rank 1 overall (grades 5-10).
- Conducted an orientation session in Goldman Sachs as a panelist as a representative of the Technovation Alumni.
- State level Gold Medal in Roller Skating (Andhra Pradesh, 2008).
- · Participated and won numerous quizzing competitions, such as Derek's Faster, Smarter, Better Challenge and Times NIE Quizomania.