

Tanvi Ajay Nerkar

SOPHOMORE UNDERGRADUATE · ELECTRICAL ENGINEERING

Indian Institute of Technology Kanpur, India

✉ tanvinerkar517@gmail.com | 🏠 home.iitk.ac.in/ tanvin/ | 📷 tanvinerkar | 🌐 tanvinerkar

Education

Indian Institute of Technology Kanpur

BACHELOR OF TECHNOLOGY, ELECTRICAL ENGINEERING · CGPA: **8.7 / 10.0**

Kanpur, India

2018 - 2022 (exp.)

National Public School Indiranagar

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

Bangalore, India

2018

Baldwin Girls' High School

ICSE EXAMINATION · SCHOOL TOPPER · SCORE: **97.8%**

Bangalore, India

2016

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
- 2010-15 **Efficiency Trophy**, Best Academic Performance across the batch Bangalore, 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

PARTICIPANT · 📱 SMART PURCHASE APP

Kanpur, India

May 2019 - Jul. 2019

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

Technovation Challenge

PARTICIPANT · CLINTON GLOBAL INITIATIVE

Bangalore, India

Feb. 2014 - Jul. 2014

- Designed an application to help high school girls explore different career options through a virtual game setting.
- Led team of 5 to build and deploy mobile app developed using MIT App Inventor 2 and Google Fusion Tables.
- Presented the application, business plan, and implementation vision at the Regional Pitch Event in Bangalore.

Infosys Ltd.

STUDENT INTERN · SPARK CATCH THEM YOUNG PROGRAM

Bangalore, India

April 2014

- Topper of a batch of 40 students, selected from over 1000 candidates across Bangalore to receive training in a corporate environment.
- Attended workshops on cloud computing, software development methodology analysis, databases, and business presentations.
- Built a small-scale, standalone application using C# for web-based IT services within a span of 2 weeks.

Projects

Life@IITK

PROGRAMMING CLUB, IIT KANPUR · 📱 LIFE-IITK

IIT Kanpur

May 2019 - Jul. 2019

- Designed a unified web app for activities, updates, and personal scheduling including individual academic and non-academic student-body updates on campus.
- Developed the front end for application using ReactJS for web-app and React Native for mobile application.

Envy-free Hostel Room Allocation App

COURSE PROJECT UNDER PROF. SWAPRAVA NATH ·  FAIR RENT DIVISION

IIT Kanpur
Feb. 2019 - Apr. 2019

- 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 SciPy and PuLP.

AirHockey

SCHOOL PROJECT ·  AIRHOCKEY

Bangalore, India
Sep. 2017 - Nov. 2017

- Developed the game Air Hockey using PyGame in Python as a practical application project for Computer Science, AISSE 2018.
- Incorporated file handling to record scores and included friction in the game dynamics to help the computer play against human player.

Skills

Languages Python, C, C++, Java, JavaScript

Libraries TensorFlow, spaCy, NumPy, pandas, PyGame

Web React, Node.js, MongoDB, Express.js, Ruby on Rails

Utilities Git, \LaTeX , MATLAB, GNU Octave

Relevant Coursework

- | | | |
|---|---|---|
| • Microelectronics ⁱ | • Probability and Statistics ⁱ | • Foundations of Cognitive Science |
| • Control System Design and Analysis ⁱ | • Linear Algebra | • Bilingualism ⁱ |
| • Signals, Systems and Networks | • Ordinary & Partial Differential Equations | • Language and Society |
| • Introduction to Power Systems | • Real & Complex Analysis | • Introduction to Literature ⁱ |
| | | <i>i: Ongoing</i> |

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

- Organized an orientation session in Goldman Sachs as a panelist representing the Technovation Alumni.
- Won Gold Medal at the State level Roller Skating Competition (Andhra Pradesh, 2008).
- Participated and won quizzing competitions including Derek's Faster Smarter Better Challenge, and Times NIE Quizomania.