



Adit Akarsh
Electrical Engineering
Indian Institute of Technology Bombay

19D070003
B.Tech.
Gender: Male
DOB: 6/27/2002

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2023	

Pursuing minor degrees in **AI and Data Science** and **Computer Science and Engineering**

SCHOLASTIC ACHIEVEMENTS

- Ranked **4th** in the Electrical Department among **164** students 2021
- Scored a **perfect 10** SPI (Semester Performance Index) in the **3rd** semester with 38 credits 2020
- Awarded the **Change of Branch/Major** to B.Tech, Electrical Engineering based on CPI 2020
- Secured **All India Rank 538** in **JEE Advanced** among 200,000 candidates 2019
- Achieved **All India Rank 828** in **JEE Main** out of 1.14 million candidates 2019

POSITIONS OF RESPONSIBILITY

Department Academic Mentor | Department of Electrical Engineering 2021-22

- Among the 35 selected from 86 applicants on the basis of extensive **interviews** and **peer reviews**
- Mentoring **8 sophomores** to help them with academics, time management and extra-curricular endeavours

Class Representative | Department of Electrical Engineering 2020-21

- Addressed the academic and logistical needs and issues of **164** fellow third year students
- Conducted **regular meetings with professors** to provide constructive feedback on the courses

Hospitality and PR Coordinator | Mood Indigo 2020-21

Asia's largest cultural festival | 1,00,000+ viewership | 100+ events | 2000+ colleges

- Organizing weekly events and workshops to engage with **30k+** students from 2000+ colleges
- Negotiated with restaurants and clubs across India to broadcast the Pronites concert

Teaching Assistant | Computer Programming and Utilization 2020-21

- Conducted tutorials and doubt clearing sessions for a batch of **12** first year students
- Ensured the smooth conduction of lab sessions by providing suitable clarifications and hints

TECHNICAL SKILLS

Languages	C++, Python, Julia, MATLAB, Embedded C, Assembly, VHDL
Web Development	HTML, CSS, Javascript, Bootstrap, Angular, Ionic, Django, MySQL
Python Libraries	NumPy, Pandas, OpenCV, Scikit-learn, Matplotlib, PyTorch
Tools	Git, L ^A T _E X, GNURadio

KEY PROJECTS

Classification of Ultrasound Images May-July 2021

Philips Innovation Campus, Bangalore | Deep Learning Intern

- Implemented a **Spatial Transformer Network** with HRNet to improve classification of ultrasound images
- Achieved **85.7%** test accuracy on the 6-class classification dataset of fetal heart view planes
- Trained an attention-based **Vision Transformer** to reach **90%** test accuracy on a 3-class dataset

Tinkerers' Laboratory Website April-July 2020

Seasons of Code | Web and Coding Club, IIT Bombay

- Built an online **inventory management system** using **Angular** and **Django** web frameworks
- Implemented an **API** using Django **REST Framework** and Angular's **HTTP Client Service**

Spoof-resistant Face Recognition April-June 2020

Institute Technical Summer Project | Institute Technical Council, IIT Bombay

- Developed a system to classify images of people as real or spoofed and recognise the person if real
- Trained a **Convolutional Neural Network** and a **Support Vector Machine** for liveness and recognition

EXTRA CURRICULAR ACTIVITIES

- Received a **special mention** in **Observation Planning General Championship**, an IITB inter-hostel competition conducted by the **Krittika, the Astronomy Club, IIT Bombay**
- Completed a 1-month certified course for L^AT_EX conducted by the **UGAC, IITB** in Summer, 2020
- Successfully completed the 2-semester NSO course for **Electronic keyboard**