Arpit Sahu

Electrical Engineering

Indian Institute of Technology Bombay

190070010

B.Tech.

Gender: Male

DOB: 04-06-2001

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2023	
Intermediate	HSC	Sarvodaya Sr Sec School	2019	92.40%
Matriculation	CBSE	Maharishi Vidya Mandir	2017	10

Pursuing a **Minor** in **Entrepreneurship** at Desai Sethi School Of Entrepreneurship, IIT Bombay

SCHOLASTIC ACHIEVEMENTS

- Secured **All India Rank 1381** in **JEE Advanced** among **0.2 million** candidates   *['19]*
- Achieved a percentile of **99.53** in **JEE Main** out of **1.2 million** candidates   *['19]*
- Recipient of the prestigious **Kishore Vaigyanik Protsahan Yojana** (KVPY) fellowship *['19]*
- Awarded **Certificate of Merit** by the **Central Board of Secondary Education** for   *['17]*
  outstanding performance and obtaining **A1 grade** in all the **five subjects**

PROFESSIONAL EXPERIENCE

Cyber Security Intern | Cyble   *[Dec '21-Jan '22]*
- Researched to highlight mertics for analyzing security posture over cybersecurity dashboard
- Developed POC for **hardware asset monitoring** by performing analysis over asset sheet
- Designed backend using **Flask** and implemented **Rest API** for sending JSON data

Controversial Advertisement Analysis | IIM Rohtak   *[Mar '21-Jun '21]*
Guide : Prof. Amit Anand Tiwari
- Analyzed dynamics of **opinion polarization** on YouTube over controversial advertisements
- Applied **Sentiment Analysis** over extracted comments to categorize users on basis of polarity
- Visualized the **static social network** performance for **dynamical opinion formation** on
  structured data over different timelines and followed this for **15+** videos of **7** brand campaigns

Web Development Intern | Sahu Technologies   *[Dec '20-Jan'21]*
- Coordinated with a team to develop company's webpages using **HTML**, **CSS**, and **Javascript**
- Used Google Maps API to create a responsive contact us page incorporating Google Maps
- Edited existing code base to improve **browser compatibility** and **mobile responsiveness**

KEY PROJECTS

Virtual Reality Project   *[Mar '20-Jul '20]*
Tinkerers' Laboratory | IIT Bombay
- Created a **3D virtual environment** of a human being in city using the **Unity Game Engine**
- Designed and spearheaded the functioning of **inventory system** and various **UI** elements
- Gained knowledge on various aspects of game development like **level design**, **collision
  detection**, **scene handling**, **animations**, C# scripting, canvas, and physics simulations

NewsByte | News Application   *[May '21]*
Self Project | Android Development
- Designed a simplistic news application providing the latest updates using **MVVM** architecture
- Fetched data from News API using **Retrofit** and displayed updated news with **Recycler View**
- Implemented **offline cache** feature using the **Room** database by applying **Repository** pattern

Hangman Game | Microprocessors [Spring '21]
Course Project | Guide : Prof V. Rajbabu, Prof S. Vijayakumaran
- Programmed the word game on the **Atmel AT89C51** Micro-controller with an **LCD Module**
- Coded the micro-controller in **Embedded C** using the **Keil μVision** and **Flip softwares**
- Used **UART** Module and **RealTerm** software for interfacing between keyboard and controller

Python Web Scraping [May '21]
Self Project | Web parsing a UK based fashion apparel website
- Developed a Python program using **Beautiful Soup** library to scrape useful data from website
- Designed an algorithm to accommodate pagination to scrape whole data from multiple pages
- Extracted and stored product description images in different directories and programmed to preserve essential metadata such as brand-name, product-id, and price in the csv format

Business Model Development | Entrepreneurship Project [Autumn '20]
Course Project | Guide : Prof. Rajen Jaswa
- Developed Business Model Canvas to evaluate value proposition along with product development
- Designed prototype website informing students about various housing solutions in their budget
- Propagated our **Business Model Canvas** of project to a panel of senior faculty as a part of pitching expedition and undertook field work for customer discovery and customer validation

POSITIONS OF RESPONSIBILITY

Co-ordinator | Techfest, IIT Bombay [Apr '20-Dec '20]
Asia's Largest Science & Technology Festival

Web	• Part of a team responsible for designing and creating **Official Techfest Website** • Contributed in creating **College Ambassador Portal** catering over 8000 students
Marketing	• Ideating upon and negotiating **digital brand integrations** with a wide range of virtual events during the festival targeting Indian youth for 20+ companies • Assisted in implementation of Techfest World MUN with target of 400+ delegates • Conceptualizing online events for Techfest to adapt to the online format

TECHNICAL SKILLS

Languages   C++, Python, Kotlin, VHDL, Embedded C

Web Development   HTML, CSS, Javascript, Bootstrap, SQL, Django

Softwares   Android Studio, AutoCAD, Git, LaTeX, Unity, GitHub

EXTRA CURRICULAR ACHIEVEMENTS

- Volunteered **80+** hours of **social service** under National Service Scheme, IIT Bombay   ['19]
- Amongst **top 10** finalist selected out of 50 teams for ENT quiz conducted by EnB club   ['21]
- Successfully completed the **Stock Market Basics** module by Zerodha Varsity   ['21]
- Worked as an **Organiser** in **Techfest**, responsible for assisting international artists, organizing their performances and contributed to overall logistics during events of Ozone   ['19]
- Designed and fabricated a **Bluetooth Controlled Bot** that can be maneuvered through an Android app for a competition competing against **150 teams** by ERC club, IIT Bombay ['19]
- Built a **Radio Controlled Plane** with a foam body, using servo motors for wing control in the RC Plane competition conducted by the Aeromodelling Club, IIT Bombay   ['19]
- Participated in **Crossy General Championship**, Inter-Hostel Marathon at IIT Bombay ['19]