Pavan Vijay Bodke

Electrical Engineering

Indian Institute of Technology Bombay

200070014

B.Tech.

Gender: Male

DOB: 5/7/2001

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

Pursuing a **Minor degree** under **Computer Science and Engineering Department, IIT Bombay**

SCHOLASTIC ACCOMPLISHMENTS

- Scored a **perfect grade point (AA)** in CS101(Introduction to C++) and EE214(Digital Circuit Design). *(2021)*
- Secured All India Rank **915** in **Joint Entrance Examination Advanced** among **1,50,838** applicants. *(2020)*
- Secured **99.85 percentile** in **Joint Entrance Examination Mains** among **8,69,010** candidates. *(2020)*
- Achieved **AIR 10** and **City Rank 1** in **National Mathematics Test** conducted by Resonance Institute *(Dec 2016)*
- Secured **State Rank 19** in **Maharashtra Talent Search Exam** conducted by Modern Education Society *(2016)*
- Awarded **City Rank 1** in Maths Quiz conducted by Ganit Adhyayan-Adhyapan Vikasan Sanstha. *(2015)*
- Achieved **City Rank 1** in Mental Ability Test conducted by Resonance Institute. *(2016)*

POSITIONS OF RESPONSIBILITY

- **Services Coordinator** | **Mood Indigo** *(Jun'21-Mar'22)*
  Part of team responsible for coordinating the 51st edition of Asia's largest Annual Cultural Fest.
  - Handled Emergency Crisis, Logistic Issues and ensure Safety during the execution of the festival.
  - Formulated security measures to follow during festival to overcome COVID repercussions.
  - Responsible for procurement of the infrastructural requirements of the fiesta like stalls, chairs etc.

- **Marketing Coordinator** | **The Entrepreneurship Cell, IIT Bombay** *(May'21-Apr'22)*
  - Worked as a part of 20-membered team, ideated and executed the deliverables to fit in the online ecosystem.
  - Successfully assisted 20+ associates professionals of firms coming to IITB for Entrepreneurship Cell events.
  - Maintained database of 100+ companies in different sectors and acted as a Point of Contact (PoC) for them.
  - Ideated multiple publicity campaigns to increase the reach of Eureka!, Asia's largest B-model competition

MAJOR PROJECTS

- **Face Recognition System** | *(CS 419 :Introduction to Machine Learning)* | *Prof. Abir De* *(Mar'22-June'22)*
  - Implemented a Deep Learning Pipeline based on FaceNet using Sequential API in TensorFlow - Python.
  - Trained a VGG embedding network using Semi-hard Triplet Loss for different values of the margin,
  - Performed Image Segmentation to detect faces in an image using HAAR Cascades.

- **Financial Mathematics** | *Mathematics and Physics Club, IIT Bombay* | *Summer of Science '22* *(Apr'22-present)*
  - Studied the basics and valuation of financial assets and their derivatives (Equity, FX, Fixed income)
  - Understood topics in Stochastic Calculus, including Generalized Weiner's Process and Ito's lemma.
  - Priced options using Discrete-Time multi-period models, extending it to the Black-Scholes model.

- **Coin and Lasso game** | *(CS 101 : Introduction to C++)* | *Prof. Bhaskaran Raman* *(Feb'20-Mar'20)*
  - Learned concepts of Object Oriented Programming and methods of using graphical objects in C++
  - Created a Coin and Lasso game using C++ having timed levels with subsequent increase in complexity
  - Fixed bugs in Skeleton Code and added 3 lives of the player which reduce upon catching bomb.

ADDITIONAL COURSES

- Pursuing a course on **Quantitative Finance & Algorithmic Trading in Python** from **Udemy**.
- Completed **Data Structures in C++** course from **Coding Ninjas**.
- Pursuing **Game Theory** course offered by **Analytics Club, IIT Bombay**.

TECHNICAL SKILLS

- **Programming & Scripting Languages**: C, C++, Java, Python, Assembly, VHDL.
- **Tools & Libraries**: MATLAB, LaTeX, Keil, Quartus.

EXTRACURRICULAR ACTIVITIES

Sports	• Acquired **second position** in the **13th Sub Junior Indoor Cricket State Championship** • Participated in the **Rasbihari Cricket Championship**. • Completed the year-long **National Sports Organization(NSO)** program in Cricket.
Social Work	• Counseled the 50+ underprivileged children under **Abhyuday' s Career counseling Campaign**. • Volunteered in Food Distribution Drive for distributing food among **150+** destitutes in Powai.