Prapti Jaydeep Kumar   190040075

Chemical Engineering   B.Tech.

Indian Institute of Technology, Bombay   Gender: Female

DOB: 01-02-2002

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

Pursuing Dual Minor degrees in **Computer Science and Engineering** and **Artificial Intelligence and Data Science**

SCHOLASTIC ACHIEVEMENTS

- Among top **10%** in a batch of 1000+ who were awarded **Branch change** on the basis of academic performance   (2020)
- Secured rank **1** in college in HSC Board examinations and rank **3** in school in ICSE Board examinations   (2019, 2017)

KEY PROJECTS

Automated Fee Benchmarking Analysis of Global Depositary Systems | Manch 4.0 | Deutsche Bank   (Dec'20 – Apr'21)
- Analyzed the working of **global depositary systems** and their advantages over traditional stocks in foreign markets
- Automated the process of downloading **1500+** targeted pdf announcements from depositary receipt websites using API calls
- Mined and structured **financial data** like dividend rate, withholding rate from the pdfs using Python and created a database

Reinforcement learning to Finance | Seasons of Code | Web and Coding Club, IIT Bombay   (Mar'21 – July'21)
- Learned basics of Reinforcement learning algorithms and their applications in **portfolio optimization** and **stock prediction**
- Derived and visualized technical indicators such as **SMA, EMA, MACD, Bollinger bands** and **Momentum** for GS stock data
- Used **Fourier transforms** and **ARIMA** for denoising and autoencoders for high-level feature extraction from close price data

Traffic Sign Recognition | Course Project | Guide- Prof. Biplab Banerjee   (Mar'21 – May'21)
- Used a subset of the GTSRB dataset consisting of **17000+** images to classify images of **43** different types of traffic signs
- Implemented and compared different **3** Machine Learning Algorithms to obtain a maximum of **96.8% accuracy** on dataset

Understanding trading of Currencies and Commodities in Stock Market | Finance Club, IIT Bombay   (June'21 – Present)
- Studied about the working of **forex** and **commodity markets** and analyzed the major differences between various markets
- Understanding the **correlation** between Iron Ore prices and AUD/USD exchange rate and macroeconomics affecting them

X-Ray Anomaly Detection using CNNs | Team perXeptron | Institute Technical Summer Project   (May'20 – July'20)
- Selected as one of the **top 3** projects amongst **60** teams in ITSP conducted by the Institute Technical Council of IIT Bombay
- Built a web app to detect **5** common thoracic diseases from X-ray images which deployed convolutional neural networks

POSITIONS OF RESPONSIBILITY

Core Group Member | Concerts Head | 51st Mood Indigo, IIT Bombay   (Apr'21 – Present)
Asia's Largest College Cultural Festival | Net worth: INR xM | Footfall: 1,46,000+ | Events: 240+
- Managing a budget of **INR xM** to curate **10** internationally renowned music performances worth **INR xM** across **4** events
- Spearheading a **two-tier** workforce of **150+ volunteers** for smooth execution of concerts attended by a crowd of **100K+**
- Extensively researched and **estimated costs** for **200+** international bands across **5+** genres and analysed crowd relevance
<u>Key Initiatives</u>:
- Organized '**Indoor Indigo**'- a series of **15+** live events and **10+** competitions with a viewership of **x+** (**200% y-o-y increase**)
- Curated a **fundraiser** campaign to provide meals to the Covid-19 affected families through virtual events with **15+** artists
- Strategizing a **novel financial model** by channelizing ticket revenues to afford a **3** times costlier international performance

Project Associate | Enactus IIT Bombay Chapter   (Oct'20 – Apr'21)
*Part of the **founding 26** membered team with a mission to positively impact lives through **socio-entrepreneurial endeavors***
- Analyzed shortcomings in the healthcare sector and interviewed key members of **10+ NGOs** to identify possible solutions
- Worked on developing a sustainable **business model** through a telemedicine system in collaboration with MedCords

Data Analyst | Insight, IIT Bombay   (Jun'20 – Mar'21)
*IIT Bombay's Official Student Media Body | Online readership of over **0.4M** | Circulated to **10,000+** students*
- Worked in a team of **9** to conceptualize community surveys, ideate and execute **data analysis** supporting **8** articles
- Collected, preprocessed and visualized data using **Python, Tableau** and **MS-Excel** to gain useful insights from the data

EXTRA-CURRICULAR ACTIVITIES

Technical Skills	• **Programming**: C/C++, Python, MATLAB, Java, JavaScript, HTML, CSS • **Software**: AutoCAD, Solidworks, MS Office, Github • Completed MNIST **Digit recognizer** challenge on Kaggle and achieved an accuracy of **96%** (2021)
Certifications	• **Financial Markets** by Yale University on Coursera, **Python Basics for Data Science** by IBM on edX, **Neural Networks and Deep Learning** by deeplearning.ai on Coursera
Culturals	• Qualified for the **semi-finals** round of Classmate **Spell Bee** held all across India (2016) • Successfully completed training in **French** for **4** years as a part of ICSE curriculum (2017)
Sports	• Completed a year-long course in **Badminton** as a part of the National Sports Organisation (2019-20)