Param Shah | **200110079**
Metallurgical Engineering and Materials Science | **B.Tech.**
Indian Institute of Technology Bombay | **Gender: Male**
DOB: 26/04/2002

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2024	

PROFESSIONAL EXPERIENCE

Menrva Technologies
Data Science Intern
[Jun'23 – Aug'23]

*Received **Letter of Recommendation** for exceptional contribution to creating end-to-end delivery model*
- Researched upon **ML** applications in **SCM** to optimize logistic operations, demand forecasts & inventories
- Directed delivery route optimization roadmap, lowered transport cost & heightened customer satisfaction
- Attained **3.92** RMSE score by training **45K+** data points using **XGBoost** & **RF** to predict food delivery time

MIP, Mumbai
Industrial Systems Modelling Intern
[May'23 - Jul'23]

*Received **Special Recognition** from the Guide: Prof Asim Tewari, recognizing exceptional internship performance*
- Developed **net-zero** energy **Glass furnace** simulation model using **COMSOL**, tackling sustainability issues
- Employed **feature engineering** to evaluate **4** distinct physics parameters, generating **3K+** data points on COMSOL
- Applied adaptive meshing technique & performed mesh convergence study reducing **25%** computational time
- Reduced **MAE** to **8%** by training the model using **Ridge Regression** to predict the temperature of glass

Mistry.Store
SEO Intern
[May'22 – Jun'22]

E-commerce startup enabling seamless contractor-shopkeeper communication for interior furniture solutions
- Utilized Competitive analysis, Content strategy, & dynamic Agile SEO monitoring, to harness **global** & **local trends**
- Improved content by optimizing **Backlinks** & implemented **Schema Markup** increasing referral traffic by **20%**

KEY PROJECTS

Helmet Detection
[May'22 – Jun'22]

Computer Vision | Institute Technical Summer Project | Detected Helmetless riders using various algorithms
- Bagged spot in **top 3** in ITSP and won technical vouchers & certification of excellence among **500+** students
- Achieved **0.73** F1 score through implementation of **Yolo** algorithm using **OpenCV** to detect helmetless riders
- Performed **Optical Character Recognition** technique using **Tesseract** to extract number plates of helmetless riders

Credit Card Fraud Detection
[Apr'23]

Anomaly Detection | Self Project | Created a model to detect the fraud transactions using anomaly detections
- Executed **EDA** on the European card transactions to assess connections between important characteristics
- Detected fraudulent transactions by utilizing **Isolation Forest** & **Local Outlier Factor**, training on **280K+** transactions
- Utilized **AutoML** techniques using **PyCaret** library to develop an adequate model, achieving an F1 score of **0.847**

Oil Price Prediction
[Oct'22 – Jan'23]

*Predictioneer, AZeotropy | Ranked **3rd** in **100+** teams | Crafted diverse algorithms for reliable oil price prediction*
- Developed **LR**, **LSTM** & **SVR** algorithms, & **ARIMA** model, ensuring accurate future oil price predictions
- Attained **1.054** RMSE value through interdisciplinary data analysis of historical data spanning over **3** years

Chess Game
[May'23]

Python | Self Project | Forged an interactive Pygame-powered chess arena for pairs with every functionalities
- Created a duo-player chess game using **Pygame**, applying object-oriented design for robust functionality
- Applied **complex game logic** by implementing intelligent heuristics, legal moves, capturing & pawn promotions

Voice Assistant
[Jul'23]

Python | Speech Recognition | Self Project | AI voice assistant to perform various tasks given by the users
- Developed a voice-activated assistant using **ppttsx3**, integrating speech recognition & text-to-speech frameworks
- Implemented functionalities to display the current time, open websites & playback music to enhance user-efficiency

Sentimental Analysis
[Jul'23]

*NLP | Self Project | Developed and deployed an app on **Django** predicting the type of sentiments using **LR***
- Achieved **99.5%** sentiment accuracy using **NLP** and **LR** on **Twitter data**, optimized with feature engineering
- Developed a web app using **Django** for sentiment prediction on **10K+** sentences & deployed it on **Heroku**

POSITIONS OF RESPONSIBILITY

Aavhan Events and PR Manager
[Jun'22 – Apr'23]

*Led a 2-tier team of **50+** members to organize IIT Bombay's Sports Fest | **8K+** participants | **150+** colleges*
- Managed budget of **INR 10M+** to conduct **20+** sports in **4** days witnessing a massive footfall of **15K+** attendees
- Pioneered **3** new sports, resulting in remarkable **30%** rise in girls' participation with **500+** total participants
- Planned the conduction of the Half Marathon in collaboration with Fitizen India catering to **10K+** participants

Contingent Manager
[Jul'22 – Oct'22]

Spardha: Annual Sports Meet of IITBHU has 22sports events conducted with over 200colleges' participation
- Oversaw a budget of **INR 0.3M+**, facilitating tickets, accommodations & logistical arrangements for **36** players
- Orchestrated sports equipment inventory, player amenities, refreshments & hydration to optimize performance

TECHNICAL SKILLS

Languages	Python, C/C++, SQL, Java, HTML, CSS, Javascript, LATEX, R, Matlab
Packages & Tools	Numpy, Pandas, TensorFlow, OpenCV, Scikit-learn, PyCaret, Excel, Tableau, PowerBI