Ishi Singhal | **210110051**
Metallurgical Engineering and Materials Science | **B.Tech.**
Indian Institute of Technology Bombay | **Gender: Female**
DOB: 12/10/2003

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2025	

Pursuing a Minor Degree in **Artificial Intelligence and Data Science** offered by C-MInDS department, IIT Bombay

SCHOLASTIC ACHIEVEMENTS

- Secured **International Rank 27** in the International Math Olympiad conducted by SOF — Jun 2021
- Achieved **99.19** percentile in JEE Mains among **1.18 million** candidates nationwide — Sep 2021

PROFESSIONAL EXPERIENCE

Data Science Intern | Urban Company — May 2023 - Jul 2023

India's pioneering unicorn in the home services sector

- Analyzed company data to identify parameters indicating intent of a lead to join as a service professional
- Prepared an extensive data set of leads, encompassing over **120** features using **SQL**
- Leveraged feature importance analysis and partial dependence curves to isolate **17** key features
- Developed a lead scoring model using **Random Forest** algorithm, thereby boosting agent productivity by **4x**

Product Research Intern | Tavaga Advisory — Dec 2022 - Jan 2023

SEBI registered Investment Advisor

- Formulated a comprehensive **SWOT Analysis** and **Go-To Market Strategy** for the robo-advisory at Tavaga
- Researched and built a detailed case study on Investment Advisories in India, including a **competitor analysis** to gain insights and identify areas for differentiation and growth opportunities

POSITIONS OF RESPONSIBILITY

Department Academic Mentor — May 2023 - Present

Metallurgy and Material Science Department, IIT Bombay

- Mentoring **6** sophomores from the MEMS department on a one-to-one basis on various aspects of their life
- Part of the Events subgroup in the D-AMP council in charge of conducting events that cater to the academic and career needs of **300+** undergraduate students from the MEMS department

PROJECTS UNDERTAKEN

Text Generation Using General Adversarial Networks | Self Project — Jul 2023

- Implementation of the research paper "Adversarial Text Generation Without Reinforcement Learning" by Donahue, D., & Rumshisky, A.
- Applied **Wasserstein GANs** and traditionally used **attention based RNN** for text generation, training the model on a Wikipedia movie plot dataset

Algorithmic Venture Capital | Self Project — Jul 2023

- Built a model that predicts the valuation step up multiple in the subsequent financing round of companies
- Implemented a 10 layer fully connected neural network, a Random Forest and a Linear Regression model and found Random Forest to be the best with an **MSE** of **1.1**

Stock Market Price Prediction | Self Project — Jun 2023

- Developed a **deep learning** stock price prediction model leveraging **LSTM model** for time series analysis using **NumPy, Pandas, Matplotlib** and **Keras (Tensorflow)**
- Enhanced forecast accuracy using feature engineering, incorporating the S&P 500 index and interest rates

Sentiment Analysis | Self Project — May 2023

- Built a sentiment analysis model classifying tweets as positive or negative sentiment using NLP concepts such as tokenization, stemming, Bag-of-Words and TF-IDF
- Built various models like **Logistic Regression, XGBoost** and **Decision Trees** and found Logistic Regression in combination with TF-IDF to be the best with an **F1 score** of **0.59**

Scalable K-Means by Ranked Retrieval | Course Project | Prof. Biplab Banerjee — Apr 2023

- Reviewed **ACM Conference paper** presenting novel K-Means algorithm for significant computational speedup
- Performed a comprehensive literature review on the **Weighted AND** algorithm and its unique ranked retrieval approach to effectively classify large datasets with a significant number of features (of the order of 10 million)