

Aakash Jha Civil Engineering Indian Institute of Technology Bombay 200040002 B.Tech.

Gender: Male DOB: 14/05/2001

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

Pursuing a **Minor degree** in **Department of Computer Science Engineering** at Indian Institute of Technology, Bombay SCHOLASTIC ACHIEVEMENTS

- Achieved 99.81 percentile in Joint Entrance Examination Main examination among 1.1 Million candidates
- Obtained 100 percentile in Mathematics in Joint Entrance Examination Main among 1.1 Million candidates
- Secured **98.68 percentile** in Joint Entrance Examination Advanced examination among **0.25 Million** candidates PROFESSIONAL EXPERIENCE

Data Analyst Intern | Deloitte

[Jun '22 - Aug '22]

- Worked on **interactive automation of insights** by end-to-end analytics of a live **Tableau dashboard**, which aids in business intelligence by extracting the data from **SQL**, pre-processing through python and creating a framework using **Dash**
- · Discovered different win and loss reasons of opportunities and analysed the open opportunities for the top clients
- Analyzed the performance of the employees by the use of KPIs and also the sales velocities for different Business Verticals
 KEY PROJECTS

Prediction Analysis System For IPL | Winter in Data Science | Analytics Club, IIT Bombay

[Jan '22]

- Performed Exploratory Data Analysis for obtaining the best performing teams, and players of all time in Ipl by python
- · Clustered players into different categories based on various performance metrics by K-Means Clustering
- Implemented Grid Search CV with Five-fold cross-validation on Random Forest Regressor, XG Boost Regressor, Extra
 Trees Regressor and Neural Networks and got the best accuracy with Extra Tree Regressor to predict the final scores
- Curated Logit, SVC, Decision Tree Classifier, Random Forest and XGBoost for predicting the winner of the match

Handwritten Digit Recognition Based On CNN | Prof Abir De | Course Project

[May '22]

- Trained the model using grayscale images of handwritten digits with 32 Kernels and Max Pooling Layer of 2x2
- · Used Stochastic Gradient Descent as an optimizer, He-Weight initialization, and ReLU activation for hidden layers
- Implemented Five-Fold Cross Validation and improved the accuracy of the model by using Batch Normalization
- Improved the model by adding 2 more layers of 64 Filters, which increased the accuracy from 98% to 99.3%

Credit Card Fraud Detection | Course Project

[Feb '22]

- Visualized data of 275,000+ transactions using t-SNE to validate modelling the problem as an Anomaly Detection
- · Built a Gaussian Anomaly Detection model combined with power transforms to detect the fraudulent transactions
- Implemented Randomized Search CV with Five-fold cross-validation on Random Forest Classifier, LightGBM, XGBoost, KNN, Logistic Regression to better model the fraudulent transactions - achieved the best results with LightGBM
- Leveraged the power of an Undercomplete Autoencoder to learn about the hidden representations of non-fraudulent transactions to detect the fraudulent ones in an unsupervised manner: F2 Score = 0.962,F1 Score = 0.917

Consumer Behavior Analysis | Course Project

[Mar '22]

- Identified customer segments based on the product purchased categories using K-Means Clustering and elbow method
- Used Apriori Algorithm Association Analysis to identify which products a customer will most likely purchase together
- Extracted key topics within product reviews to interpret customer feedback using NLP and Latent Dirichlet Allocation

Early Signs of bankruptcies | Finsearch | Finance Club, IIT Bombay

[Ongoing Project]

- Achieved an in-depth understanding of the process of going bankrupt and learned how a company declares itself bankrupt
- Studied various models like the Springate model, Zmijewski's model, and Z-Score model for bankruptcy prediction
- Created a report of the case study on the downfall of Kingfisher airlines and analyzed Risk Management failure
 POSITIONS OF RESPONSIBILITY

Technical Secretary | Hostel 2,IIT Bombay

[Nov '21 - May '22]

[2015]

- Conducted speaker sessions and workshops and launched technical projects for all 450+ hostel students
- Worked cohesively with the Technical Councilor for organizing major hostel events and maintaining the **Tech Inventory**Pronites Coordinator | Mood Indigo [May '21 Mar '22]
- Successfully conceptualized and meticulously organized Livewire The Biggest Semi-Professional Indie band competition
- Proficiently coordinated with the team for the execution of Mood Indigo Homecoming Concert with a 10k+ audience

TECHNICAL SKILLS

Programming C++, Python, R, MATLAB, LTEX

Data Science Pandas, NumPy, Matplotlib, Seaborn, SQL, Scikit-Learn, TensorFlow, Dash, OpenCV, NLTK

EXTRACURRICULARS

- Pursuing Udacity courses on Computer Vision, Operating System, Algorithms and Reinforcement Learning [2022]
- Certified **Python Business Analyst by Henry Harvin** by completing the course of Business Analytics with python [2022]
- Completed the Winter In Data Science Bootcamp conducted by the Analytics Club, IIT Bombay [2021]
- Prepared a PPT on a case of "Entry of Tesla in India" for IIT Kharagpur's Indian Case Challenge [2022]
- Participated in Competencia de Pitcheo and pitched a startup idea based on Renewable Energy [2021]
- Secured the first position at Nehru Science Center Quiz held amongst 256 schools across Maharashtra
 [2017]
- Awarded Active Student prize for being **second best student** in school in all the extracurriculars activities