

MIHIR BHAGAT

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SUMMARY

Data Science graduate with internship experience in financial marketing and data automation, skilled at translating real-world problems into actionable, data-driven insights.

EDUCATION

Narsee Monjee Institute of Management Studies – B.Sc. in Data Science

August 2022 – May 2025

CCGPA: 3.54/4

SKILLS

Programming Languages: Python, R, SQL

Databases & Tools: PostgreSQL, Microsoft Excel, Tableau, Minitab

Concepts: Machine learning, Deep learning, DBMS, Regression, Classification, Clustering, Time Series Analysis, Physics-Informed Neural Networks (PINNs), Statistics, Audio Processing, Computer Vision, Feature Engineering

EXPERIENCE

Management Trainee Intern – Marketing & Financial Services

Oct 2024 – Nov 2024

Bajaj Allianz Life Insurance Co. Ltd

- Completed a 1-month hybrid internship with structured training in **financial marketing, insurance planning, and investment strategy**, mentored by senior advisors.
- Contributed to the *Money Rules* live project by preparing over **30 MoM reports** and **10+ video briefings**, enhancing client engagement tracking and campaign evaluation.
- Applied consumer behavior insights and social media strategy to support outreach campaigns, contributing to an estimated **15–20% boost** in engagement.

Data Analyst Intern

May 2024 – June 2024

Intern InfoTech

- Built a Python-NLP pipeline for YouTube transcript summarization, **automating content review and reducing manual effort by over 70%**.
- Designed interactive **SQL dashboards for 100+ football matches**, uncovering performance insights for teams and players in a real-world sports analytics context.

PROJECTS

Multilingual Speech Processing System. Built an end-to-end ASR system with Wav2Vec 2.0 and CNN-RNN; Attained **15.12%** Character Error Rate (CER) and **98.5%** accuracy in text correction. ([Code](#))

Tumor Growth Modeling Using PINNs. Modeled tumor growth using PINNs and Bertalanffy equations across **7–65** animal datasets; achieved **0.0135 MSE** secured **2nd Runner-Up** at NSOMASA Poster Competition. ([Poster](#))

Intrusion Detection System. Built an ML-based IDS using the UNSW-NB15 dataset; engineered features and applied classifiers to detect attacks with **92% accuracy**. ([Code](#))

Cardiovascular Risk Analysis. Analyzed real hospital and public datasets to uncover risk factors in young adults using regression, chi-square, and t-tests; improved clinical validity. ([Code](#))

AWARDS AND EXTRA-CURRICULAR ACTIVITIES

- **2nd Runner-Up** – Computational Mathematics Poster Competition (PINN project), NSoMASA, NMIMS
- **Finalist** – NMIMS Research Symposium; presented work to the **Vice Chancellor**
- **Runner-Up** – Hack-A-Stat Hackathon 2025, in collaboration with Avdian Consulting
- **10th Rank** – Kaggle “Store Sales Time Series” (April 2024); Achieved top **1% RMSE** with ensemble model
- Applied Data Science Lab, WorldQuant University (2023): **Finished eight hands-on data science projects**