SATVIK GAJANAN NAYAK

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EDUCATION

The University of North Carolina at Charlotte, Charlotte, NC, USA **Aug 2024 - May 2026**
Candidate for Master of Science in Computer Science **GPA: 3.77**
Concentration: Data Science
Courses: Algorithms and Data Structures, Artificial Intelligence, Database Systems, Visual Analytics, Software System Design Implementation, Data Information Visualization, Computer Communication and Networks.

Mukesh Patel School of Technology Management & Engineering, NMIMS University, India **Aug 2020 - May 2024**
Bachelor of Technology in Computer Engineering **GPA:3.39**
Courses: Data Structures, Design and Analysis of Algorithms, Machine Learning, Deep Learning, Artificial Intelligence, Software Engineering, Business Information Visualization and Analysis, Big Data Analytics, Cloud Computing, Database Management System, Programming for Problem Solving, Natural Language Programming.

TECHNICAL SKILLS

- Programming Languages: Python, R, SQL (MySQL), C, SAS
- Softwares: Tableau, Power BI, Dataiku DSS, SAS Visual Analytics, AWS, Spark, Hadoop, MATLAB, Excel, VS Code, Git, GitHub, CodeBlocks
- Web Technologies: HTML, CSS
- Other Skills: Storytelling with Data, Communication, Leadership, Teamwork, Decision-Making, Analytical Thinking
- Libraries: NumPy, Pandas, Scikit-Learn, TensorFlow, PyTorch, Matplotlib, Seaborn, Streamlit, FastAPI, D3.js, GeoPandas, LangChain, FAISS

EXPERIENCE

Hackveda Limited **Dec 2023 – Apr 2024**
Data Engineer Intern

- Built and deployed a location prediction pipeline in Dataiku DSS using ensemble models to route operational decisions, achieving high-confidence predictions used by business stakeholders, reducing manual planning effort.
- Analyzed 500K+ anonymized banking transactions using Python (Pandas, NumPy) and SQL to engineer fraud-relevant features, enabling downstream ML models to reduce false positives and improve fraud detection effectiveness by 30%.
- Built predictive machine learning models in Python (Scikit-learn) on a 10,000+ record student dataset, analyzing socio-economic and demographic factors impacting academic performance. Enhanced model accuracy by **3%**, and designed data visualizations (Matplotlib, Seaborn) to present insights that informed data-driven educational policies.

ACADEMIC PROJECTS

Local LLM PDF Chatbot with Retrieval-Augmented Generation **Aug 2025 – Oct 2025**

- Built an end-to-end RAG system (FAISS, LangChain) to deliver grounded LLM responses over private documents, optimizing retrieval relevance while minimizing hallucinations.
- Designed **dynamic ingestion and embedding updates**, enabling continuous knowledge refresh and production-style decision support.

Predicting Admission to Foreign Universities **Jan 2023 – May 2023**

- Improved data reliability through outlier detection and statistical validation, increasing usable signal by ~27% for downstream modeling.
- Evaluated multiple ML models, selecting approaches based on generalization and stability under uncertainty, not peak accuracy.

Bank Loan Status Analysis Using Data Mining Techniques **Dec 2023 – May 2024**

- Processed datasets with 1M+ values, resolving data quality issues and engineering features for credit risk prediction.
- Compared classification models to assess risk tradeoffs between approval rates and default likelihood, framing results around business decisions.

Dashboard Designing using SAS Visual Analytics **Jan 2023 – May 2023**

- Built multi-page, interactive dashboards surfacing operational KPIs and performance signals, improving insight discovery efficiency by 15%.
- Enabled stakeholder drill-downs from aggregate metrics to root causes, supporting faster, data-driven decisions.