MAHI NIGAM

mahinigam.000@gmail.com | +91-8789728390 | Mahi Nigam | GitHub

PROFESSIONAL SUMMARY

Aspiring Data Scientist skilled in Python, SQL, and R with hands-on experience in Machine Learning, NLP, and predictive modeling. Proficient in data preprocessing, statistical analysis, and visualization using Tableau and Power BI to deliver actionable insights.

EDUCATION

Galgotias University — Greater Noida, India
B.Tech in **Computer Science & Engineering** — (2023 – 2027)

TECHNICAL SKILLS

- **Programming:** Python, R, Git, GitHub
- **Data Analysis:** Pandas, NumPy, Matplotlib, Seaborn
- **Machine Learning:** Scikit-learn, TensorFlow, PyTorch, Random Forest, Regression, Classification, Forecasting, Model Evaluation (ROC-AUC, Cross-Validation), NLP (NLTK, Word2Vec, TF-IDF)
- **Statistics:** Hypothesis Testing, A/B Testing, Experimental Design
- **Visualization/BI:** Tableau, Power BI, Excel
- **Databases:** MySQL, PostgreSQL, MongoDB
- **Big Data & ETL:** Apache Spark, Hadoop, ETL Pipelines
- **Cloud & Tools:** AWS (EMR, S3, EC2 basics), Docker, Jupyter Notebook
- **Core Strengths:** Data Cleaning, Feature Engineering, Dashboarding

PROJECTS

Customer Purchase Pattern Analysis | *Python, SQL, Power BI*

- Developed an ETL pipeline to clean, transform, and load 1000+ customers.
- Built regression models (Linear & Ridge) achieving $R^2 = 0.82$, identifying key spend drivers.
- Delivered interactive Power BI dashboards and concise executive reports summarizing top drivers and actionable trends.

Automated Sentiment Analysis of Social Media Posts | *Python, NLP, Power BI*

- Designed NLP pipeline with TF-IDF, Word2Vec, NLTK, achieving 85%+ accuracy in tweet sentiment classification.
- Compared models (Logistic Regression, Random Forest) to optimize performance.
- Built an interactive Power BI dashboard tracking sentiment trends across 5,000+ social media posts for easy visualization.

Fraud Detection & Transaction Risk Scoring System | *Python, SQL, Tableau*

- Developed fraud detection system analyzing 50,000+ financial transactions, achieving 93% precision, 90% recall, and reducing false positives by 18%.
- Engineered features (transaction frequency, device ID, geo-location) for robust fraud risk scoring.
- Built Tableau dashboards visualizing anomalies and generating compliance-ready reports.

AutoNote – AI-Powered Note-Taking Assistant | *Python, NLP, Flask*

- Created AI-powered assistant that summarized meeting transcripts into structured notes, reducing manual note-taking effort by 70%.
- Implemented keyword extraction + abstractive summarization pipeline, deployed as a lightweight Flask web app.
- Enhanced productivity for end-users by automatically generating concise meeting summaries.

CERTIFICATIONS

- **Introducing Generative AI with AWS** – Udacity **(July 2025)**
- **CS50's Introduction to Computer Science** – Harvard University **(Aug 2023)**
- **Python 101 for Data Science** – IBM Cognitive Class **(July 2023)**

ADDITIONAL SKILLS

· Analytical Thinking · Data Storytelling · Problem Solving · Team Collaboration · Attention to Detail