

# MAHI NIGAM

✉ [mahinigam.000@gmail.com](mailto:mahinigam.000@gmail.com) | ☎ +91-8789728390 | [in Mahi Nigam](#)

## PROFESSIONAL SUMMARY

Driven Computer Science undergrad with strong foundations in data analysis, business intelligence engineering, and reporting automation. Skilled in SQL, Python, and visualization (Tableau, Power BI). Experienced in working with the data lifecycle from ingestion to visualization, creating dashboards, and preparing knowledge-sharing reports to communicate insights and business impact effectively.

## EDUCATION

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

## TECHNICAL SKILLS

- **Programming Languages:** Python, Java, JavaScript, HTML5, CSS3, Shell Scripting, Scala, R
- **Data Engineering:** SQL (MySQL, PostgreSQL), NoSQL Concepts, SQL Optimization, ETL Pipelines, Data Modeling, Metadata Management, Data Architecture
- **Big Data & Cloud Platforms:** AWS fundamentals, AWS QuickSight, Looker, Hadoop, Spark, EMR, Docker, Unix/Linux environment data processing, experience handling large-scale datasets approaching multi-TB scale for analysis and transformation
- **Data Science & ML:** Scikit-learn, TensorFlow, PyTorch, NLTK, Word2Vec, TF-IDF, Random Forest, Regression, Forecasting, Hypothesis Testing, A/B Test Analysis, SAS, SPSS, MATLAB, Caffe, MXNet
- **Data Analysis & Visualization:** Excel, Pandas, NumPy, Matplotlib, Seaborn, Power BI, Tableau, Trend Analysis, Real-Time Dashboards, Data Storytelling
- **Tools & Systems:** Linux, Jupyter Notebook, Trello, Jira, Slack, Version Control (Git), Google Workspace (Gmail, Docs, Sheets, Slides)
- **Soft Skills:** Strategic Thinking, Team Collaboration, Written & Verbal Communication, Data Storytelling, Knowledge Sharing, Problem Solving

## PROJECTS

### Customer Purchase Pattern Analysis

**Technologies:** Python, SQL, Pandas, NumPy, Matplotlib, Seaborn, MySQL, Scikit-learn, Power BI

- Ingested and stored raw customer data into MySQL, enabling structured analysis.
- Cleaned and pre-processed data, handling missing values and standardizing categories.
- Engineered features like spend per unit, encoded variables, and purchase date components.
- Built a regression model to predict purchase behaviour and identify key spend drivers.
- Documented findings in reports and presentations for knowledge sharing, highlighting actionable insights and business impact of customer trends.

### Automated Sentiment Analysis of Social Media Posts

**Technologies:** Python, Scikit-learn, NLTK, TensorFlow, Twitter API, Jupyter Notebook

- Developed an end-to-end NLP pipeline to classify real-time social media posts by sentiment.
- Applied TF-IDF and Word2Vec for text preprocessing and feature extraction.
- Trained and optimized ML models (Logistic Regression, Random Forest) achieving 85%+ accuracy.
- Built a real-time dashboard to visualize sentiment trends and data insights.
- Mapped the data lifecycle from raw text collection to insight generation, delivering clear reports to showcase industry sentiment and potential business impact.

## CERTIFICATIONS

- **CS50's Introduction to Computer Science** – Harvard University **(Aug 2023)** [Certificate](#)
- **Data Analysis with Python** – IBM Cognitive Class **(July 2023)** [Certificate](#)
- **ChatGPT Prompt Engineering for Developers** – DeepLearning.AI **(May 2025)** [Certificate](#)