Geetangi Sharma

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Professional Summary

Pre-Final-year Computer Science student with practical experience in data-driven project development. Strong foundation in machine learning, model evaluation, and SQL-based systems. Built end-to-end tools for classification, clustering, and inventory forecasting. Proficient in Python, Scikit-learn, Power BI, and SQL.

Education

Manipal University Jaipur, B.Tech in Computer Science and Engineering — Jaipur, India

- Relevant Courses: Machine Learning, NLP, Data Structures, RDBMS, Predictive Analytics

- XII, Jayshree Periwal Global School — Non-Medical + Entrepreneurship (2020–2022)

- Held dual leadership roles: Cultural Captain & Entrepreneurship Head, Student Council

Skills

Languages: Python, SQL, C, C++
Frameworks & Libraries: TensorFlow, Keras, Scikit-learn, FastAPI, PySpark
Tools & Platforms: Git, GitHub, Jupyter Notebook, Power BI, VS Code
Core Competencies: Supervised & Unsupervised Learning, NLP, Model Evaluation, Clustering, Data Preprocessing, Model Deployment, Text Classification, Transformers basics
Soft Skills: Analytical Thinking, Communication, Collaboration, Problem Solving

Projects

Fake News Detection System (2025)
- Built a logistic regression model using TF-IDF features; reached 94% accuracy on a dataset of 10,000+ news articles.

- Cleaned and preprocessed text data (stopword removal, tokenization), and vectorized using TF-IDF.

- Implemented the complete pipeline in Python with scikit-learn, pandas, and matplotlib for performance analysis.

- Improved model generalization via 5-fold cross-validation; reduced overfitting by tuning regularization.

Sentiment Analysis Using Transformers(BERT/DistilBERT)(2025)
- Fine-tuned DistilBERT transformer for sentiment analysis using Hugging Face Transformers and PyTorch.

- Engineered NLP pipeline including data cleaning, tokenization, and input formatting for model training.

- Conducted model evaluation using accuracy, precision, recall, and confusion matrix.

- Achieved high accuracy with reduced model complexity and fast inference, suitable for real-time NLP tasks.

Inventory Forecasting Tool (2025)
- Developed a desktop-based Inventory Management System in Python using Tkinter and SQLite for real-time inventory tracking.

- Implemented full CRUD operations for managing employees, suppliers, products, categories, and sales.

- Designed a user-friendly GUI with search functionality, form validation, and data persistence.

- Streamlined business workflows through modular design and robust database integration.

Customer Segmentation Analysis (2025)
- Analyzed 12,000+ customer records to identify patterns in purchase behavior using K-Means, DBSCAN, and agglomerative clustering.

- Preprocessed data with feature scaling and visualization using Seaborn and Matplotlib. Identified distinct customer groups to enable targeted marketing strategies. Demonstrated practical unsupervised learning for business intelligence applications.

- Created visual reports showing 4 customer clusters; enabled precision-targeted marketing strategies.

Experience

- **Smart India Hackathon (2024)** — Developed a real-time ML model for predicting traffic congestion based on geolocation data; collaborated with 5 teammates under 36-hour deadline; project selected among top 0.5% of 3,000+ entries.
- **NBC Idea Factory (2025)** — Built and pitched a sustainability score predictor that tracked individual carbon footprints; reached national finals (Top 25 out of 500+); prototype scored 87% accuracy during evaluation.

Certifications

- **IBM:** Artificial Intelligence Fundamentals – Dec 2024
- **Google:** Data Analytics Professional Certificate – 2025 (ongoing)
- **Google:** Business Intelligence – 2025 (ongoing)
- **Oracle:** SQL Programming & Database Foundations – 2024
- **Coursera:** Excel for Business – 2024
- **Great Learning:** CSS, JavaScript, PHP – 2024

Coursework

Data Science: Machine Learning, Data Science and AI, NLP, Predictive Analytics
Core CS: Data Structures and Algorithms, OOP, RDBMS, Engineering Mathematics
Soft Computing: Artificial Intelligence and Soft Computing
Economics: Economics