

Geetangi Sharma

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Professional Summary

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.

Advanced Sentiment Analysis with NLP Transformers + Vector Search (2025)

- Built an advanced sentiment analysis system combining transformer models (BERT, DistilBERT) with semantic vector search using Pinecone.
- Fine-tuned models using Hugging Face Transformers and SentenceTransformers on custom sentiment datasets.
- Generated dense vector embeddings for input queries and indexed documents to enable similarity-based retrieval.
- Deployed using FastAPI for real-time inference and semantic search, supporting scalable sentiment-driven applications.

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:** Data Science Foundations – May 2025
- **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