Sangam Gupta

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Summary

AI/ML engineer who builds and ships machine-learning and LLM products end to end: ProfilePilot, an AI profile coach with 500+ downloads on Google Play; a self-hosted LLM assistant; and a customer segmentation model served from AWS to web and Android. Computer engineering graduate (2026).

Skills

Languages and data: Python, SQL, NumPy, pandas, Statistics, MySQL, Supabase
Machine learning: scikit-learn, EDA, Feature engineering, Model evaluation, K-Means, PCA, RFM analysis, NLP, NLTK, LLMs, RAG, Deep learning
Products and APIs: FastAPI, Pydantic, Uvicorn, Flask, Streamlit, REST APIs
Infrastructure and LLM tooling: AWS EC2, DigitalOcean, Nginx, Linux, Ollama, OpenWebUI, LangChain, FAISS, Git
Analytics: Power BI, Excel, Tableau, Matplotlib, Seaborn, Jupyter

Projects

ProfilePilot Live Case study
Android, Supabase Edge Functions, Deno, Postgres, Groq, gpt-oss-120b
AI profile coach on Google Play: profile score and audit, headlines, About, experience bullets, job match, messages, interview prep and posts. Eight tools behind one Supabase Edge Function calling Groq's gpt-oss-120b with strict JSON schemas.
500+ downloads on Google Play; 8 AI tools with strict JSON-schema outputs; per-device and per-IP daily quotas enforced in Postgres.

Customer Intelligence Live Case study
Python, scikit-learn, K-Means, FastAPI, AWS EC2, Streamlit, Kotlin
End-to-end unsupervised ML system: RFM features and K-Means clustering behind a FastAPI service on AWS EC2, used by a Streamlit web app and a native Android app.

Credit Risk Predictor Case study
Python, scikit-learn, HistGradientBoosting, pandas, Streamlit
Gradient-boosted model on applicant financial, demographic and credit data, with a Streamlit app that returns default probability, risk class and the features driving the model.
ROC-AUC 0.76; catches 41.8% of defaulters (recall) at a custom 15% threshold; 85.2% accuracy.

Quanta (Sangam AI) Live Case study
Qwen2.5, Ollama, OpenWebUI, Nginx, DigitalOcean
Self-hosted LLM chat platform running Qwen2.5 through Ollama and OpenWebUI, deployed on DigitalOcean behind Nginx with HTTPS and custom system prompts.

NewsIntel Live Case study
Python, scikit-learn, TF-IDF, NLTK, Flask, Supabase, Google OAuth
My final-year engineering project: an NLP platform that classifies news as real or fake with TF-IDF features, NLTK preprocessing and a Passive Aggressive classifier, served through Flask with Google sign-in and verification history on Supabase.

Student Marks Predictor Live Case study
Python, scikit-learn, FastAPI, Pydantic, AWS EC2, Streamlit
scikit-learn regression pipeline served from a FastAPI backend on AWS EC2 to a Streamlit app and an Android app in closed testing on Google Play (API design and Android app built with AI assistance).

AI & ML RAG Assistant Case study
Python, LangChain, FAISS, sentence-transformers, Streamlit
Learning prototype of retrieval-augmented generation: LangChain chunking, MiniLM embeddings in a FAISS index, top-3 retrieval, and Gemini via OpenRouter answering only from the retrieved context.

India Election 2024 Dashboard Live Case study
Power BI, Data modelling
Power BI dashboard with a data model for state-wise and constituency-level analysis, across four views: overview, state demographics, political landscape and constituency analysis.

Experience

Independent AI/ML engineer, Self-directed — Ongoing
Designing, building and shipping AI products: ProfilePilot (500+ downloads on Google Play), Quanta, NewsIntel, Customer Intelligence and more.

Data science intern, IT Vedant — Internship
Real-world ML projects in business insight, predictive modelling and data storytelling.

Quantitative research, JPMorgan Chase — Virtual
Financial data modelling and statistical research on market data.

Data science, British Airways — Virtual
Predictive modelling of customer behaviour and an end-to-end ML pipeline.

Data analytics, Deloitte Australia — Virtual
Data cleaning, visualisation and business insight for client deliverables.

Data visualisation and GenAI, Tata — Virtual
Power BI dashboards and business reporting.

Retail analytics, Quantium — Virtual
Customer analytics and statistical analysis for the grocery sector.

Education and certifications

B.E. Computer Engineering, CGPA 7.25, CSMIT, University of Mumbai — June 2022 to May 2026
Professional Certification, Data Science and Analytics with AI, IT Vedant — December 2025 to 2026
Machine Learning with Python, IBM, via IT Vedant
Data Analysis with Python, IBM, via IT Vedant
Python 101 for Data Science, IBM, via IT Vedant
Advanced Excel, SQL, Power BI and Python for Data Analytics, IT Vedant
Machine Learning and NLP Bootcamp, Udemy — 2025
Stock Market Course, Asmita Patel Global School of Trading — 2024

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