Nemish Sapara

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Summary

AI/ML engineering student with hands-on experience in building end-to-end intelligent systems, including RAG pipelines, agentic AI assistants, and real-time ML applications. Proficient in Python, FastAPI, React, and modern AI/ML frameworks. Certified in AWS, Google Cloud, and IBM ML, with a strong foundation in data analysis, backend development, and LLM-based applications.

Experience

Data Analysis Intern **Mar – Apr 2024**
Samatrix.io *Remote*

- Explored and analyzed data patterns using Pandas, NumPy, and Matplotlib.
- Prepared datasets by cleaning inconsistencies, filling missing values, and creating new features.
- Built visual stories from data using Seaborn and Matplotlib.
- **Tech:** Python, Pandas, NumPy, Matplotlib, Seaborn

Projects

Private Company Assistant Using RAG **2026**

- Built an enterprise RAG assistant for internal policy/process Q&A with citation-based answers and role-based access (Employee/HR/Manager).
- Implemented end-to-end pipeline: document ingestion, chunking, embeddings (Sentence-Transformers), Qdrant indexing, and hybrid retrieval/reranking.
- Developed FastAPI + React system with JWT auth, RBAC, prompt-injection checks, audit logs, and workflow automation.
- **Tech:** Python, FastAPI, React, TypeScript, SQLAlchemy, JWT, Sentence-Transformers, Docker, GitHub Actions, SQLite

Nexus AI – AI-Powered Personal Assistant **2025**

- Created an AI-powered personal assistant handling multi-step workflows with LangChain automation and RAG via vector databases.
- **Tech:** Python, LangChain, Groq, RAG, JavaScript

Real-Time Face Emotion Detection **2025**

- Built a real-time facial emotion detection web app with live webcam analysis, dynamic probability bars, and image upload support.
- **Tech:** Python, HTML, CSS

Technical Skills

Programming: Python, Java, C/C++, R

AI / ML: ML, DL, Scikit-learn, RAG, LLMs, Agentic AI

Backend & Web: FastAPI, Flask, REST APIs, JWT Auth, Next.js, React, PostgreSQL, MongoDB, SQLAlchemy

Data & Analytics: Pandas, NumPy, Matplotlib, Seaborn, Feature Engineering, Power BI, Tableau

Tools: Git, Docker, Jupyter Notebooks, HuggingFace, MLflow, Postman, VS Code, Databricks

Problem Solving: Solved around 100 LeetCode problems across various difficulty levels

Education

Charotar University of Science and Technology **Aug 2023 – Present**
B.Tech in Artificial Intelligence and Machine Learning *Anand, Gujarat*

- Current SGPA: 7.35 Overall CGPA (up to 5th Semester): 7.35 / 10

J.B & Karp Vidya Sankul **2019 – 2023**
Higher Secondary & Secondary Education *Surat*

- Class 12th: 70% (85.14 PR) Class 10th: 83.50% (93.78 PR)

Programs & Certifications

- AWS Cloud Practitioner Essentials
- Amazon Web Services (Coursera)
- Managing Machine Learning Projects with Google Cloud
- Google Cloud (Coursera)
- Machine Learning with Python – IBM (Coursera)
- Business Analytics Workshop – IIT Bombay
- Database Management System – NPTEL