Aaryan Kale

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🌐 Portfolio Website

Professional Summary

Electronics and Telecommunication Engineering graduate with hands-on experience in AI-driven applications, cloud-based systems, and data engineering workflows. Skilled in building and deploying LLM-powered solutions, including RAG pipelines, AI comparison systems, and automated evaluation tools using Python, AWS, and modern frameworks. Experienced with SQL-based data modeling and enterprise data platforms such as Snowflake and Informatica. Strong foundation in scalable backend design, API development, and end-to-end project delivery, with a focus on solving real-world problems through data, automation, and intelligent systems.

Skills

- **Languages:** Python, Java
- **Web:** HTML, CSS, JavaScript, React, Streamlit
- **AI/ML:** LLMs, RAG, Scikit-learn, Pytorch, Tensorflow, n8n, OpenCV, Pandas, NumPy
- **ETL and Data Warehousing:** Informatica, Snowflake

- **Databases:** SQL, Pinecone, FAISS, PostgreSQL (pgvector), MongoDB
- **Cloud:** AWS (S3, EC2, Textract)
- **Frameworks:** Django, Flask, LangChain, Phidata
- **OS:** Windows, Linux

Certifications

- **AWS Academy Graduate – Cloud Foundations**   Apr 2024
- **n8n Crash Course: Master AI Agents with n8n in a Day**   Nov 2025

Projects

AI-Based Assignment Grader & RAG Assistant – *Sep 2024 – Mar 2025 — Python, Flask, AWS, Gemini, LangChain, Pinecone*
- Automated evaluation of handwritten exam papers with 92% accuracy using AWS Textract and Gemini.
- Built a chatbot-style RAG assistant using Langchain and Pinecone to answer 100+ syllabus-related queries.
- Integrated Google Search for real-time scraping from the college portal.
- **Impact:** Reduced manual grading time by over 80%; enabled 24/7 syllabus-based student support.

AI Comparator – LLM Scoring & Evaluation Tool – *May 2025 – June 2025 — Django, Python, React, PostgreSQL*
- Built a full-stack web app using Django backend and React frontend to compare LLM outputs (GPT-4, Gemini, Mistral, LLaMA).
- Integrated Gemini for auto-scoring and comparison of model responses with highlight-based scoring logic.
- Implemented advanced analytics dashboard (charts, filters, model usage) and secured user authentication system.
- Added structured response formatting, query storage, and user-level filtering of past results.
- **Impact:** Enabled systematic benchmarking and visual analysis of multiple LLMs for enterprise-level evaluation.

YaarGPT – AI Companion with Telegram Integration – *November 2025 — Python, Gemini, Phi, SQLite, Telegram Bot API*
- Built a human-like AI companion on Telegram with Hinglish conversational style and technical mentorship.
- Implemented persistent per-user memory with strict session isolation using SQLite.
- Resolved concurrency issues via per-request agent instantiation for thread-safe multi-user interactions.
- **Live:** https://t.me/Aaryan_ka_buddy_bot

Education

B.E. in Electronics and Telecommunication Engineering
Vidyalankar Institute of Technology, Mumbai   Nov 2022 – May 2025

Diploma in Electronics and Telecommunication Engineering
Bharati Vidyapeeth's Institute of Technology, Navi Mumbai   Aug 2019 – Jun 2022

Secondary School Certificate (SSC)
St. Andrew's International School, Navi Mumbai   Mar 2019