Aryan Balodi

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Skills

Languages: Python (OOP) | C++ (OOP) | TypeScript | JavaScript

Framework/Tools: Langchain | Llama-Index | Node.js | Next.js | TailwindCSS | Firebase | Git | GitHub

Database: MySQL | CassandraDB | Firestore | vector databases (ChromaDB)

Work Experience

AI Engineer Intern, Net Analytics LLC   June 2024 – Aug 2024

- Contributed to a **live project** by developing the **backend** of a chatbot intended for integration into the company's product portal.
- Utilized frameworks such as **Llama-index**, Sentence Transformer and Embedding model (via **HuggingFace**) to write the chatbot's logic.
- Generated responses via two different sources: the **RAG** pipeline for retrieving and generating answers; and forming SQL queries to fetch data from the CassandraDB. Leveraged **Fast API** to facilitate communication between the product portal's frontend and the backend logic, ensuring seamless integration and efficient data exchange.

AI Engineer Intern, Tenacio   ⚙ June 2025 – Aug 2025

- Designed and implemented a **RAG** backend using **HuggingFace embeddings and models**, enabling the **LLM** to deliver accurate, fact-grounded responses by leveraging outputs retrieved from the **vector database** containing structured fintech service and vendor knowledge.
- Created a **multi-stage prompt framework** that structures conversations, guiding users step-by-step to the right fintech services while enforcing strict output formatting and validation..
- Implemented **in-memory state handling** to maintain conversational context across an interaction, tracking user preferences and workflow stages for seamless, multi-turn dialogue management.

Projects

Sync-Space: Appointment-Booking & Resource-Blocking Platform   ⚙ aryan-balodi

- Built a **Next.js** and **Firebase** web app for real-time scheduling and resource management.
- Aimed at simplifying daily operational tasks via efficient technology use.
- Implemented **role-based login and redirect system** with faculty-only appointment approval; auto-generated **ics file** for students on request approval
- Under consideration for integration into the university's ecosystem.

Cold DM Instagram Automation   ⚙ aryan-balodi

- Built an end-to-end **Cold Outreach** AI automation pipeline to identify and DM Instagram users based on niche-relevant engagement data
- Engineered **scalable data extraction** workflows using Decodo (Meta developer scraping layer) after evaluating multiple **web-scraping** solutions
- Used **LLMs** to generate personalized outreach messages from user comments and post context; automated delivery via **instagrapi**

Education

Manipal University Jaipur, B.Tech in Computer Science   2022 – 2026 (expected)

- **Relevant Coursework:** Computer Architecture, Comparison of Learning Algorithms, Computational Theory

Narayana Institute, Mumbai   2019 - 2022

CBSE (Class X and XII - PCM)