Rhythem Jain

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# Education

**Vellore Institute of Technology, Vellore** Vellore, Tamil Nadu

*B. Tech., Computer Science (AI &ML): 8.02 Sep 2021 - Mar 2025*

# Skills

**Programming Languages**: Python, Java, C++, C, SQL, JavaScript, HTML, CSS

**Frameworks/Libraries:** Spring Boot, JUnit, Mockito, Tailwind CSS, Langchain, NumPy, Pandas, Matplotlib, Scikit-Learn, Seaborn, TensorFlow

**Tools**: Git, IntelliJ IDEA, VS Code, Tableau, Google Colab, Jira, Kibana, Jupyter Notebook

**Databases**: MySQL, PostgreSQL, Firebase, Elasticsearch

**Concepts:** Machine Learning, Data Structures, Algorithms, Operating Systems, Object-Oriented Programming

# Experience

**Data Science Intern** Jan 2025 – Present

*Bharti Airtel Ltd., Gurgaon*

* Collaborated in a 5-member team to develop a **3D Virtual Agent** deployed in Airtel stores to automate SIM issuance, broadband setup, and mobile plan conversions.
* Wrote **JUnit and Mockito test cases** to improve code coverage of Voicebot-Orchestrator project from **47%** to **93%**, ensuring robust unit testing.
* Executed a **PoC with Reverie AI STT** to assess accuracy and potential cost savings compared to Azure STT.
* Automated chatbot training workflows and authored **Elasticsearch queries** for analysing conversational data.
* Contributed to the **Voicebot-Orchestrator** built with **Spring Boot**, implementing fixes and classifying errors to enhance system stability and performance.

**Fontend Developer Intern** Aug 2023 – Sep 2023

*S.S.Compusoft, Jaipur*

* Engineered and optimized an Employee Management System using HTML, CSS, and JavaScript, achieving compatibility across 95% of browsers and platforms, supporting a user base of over 120 employees.

# Projects

**Automated Data Analyzer [Github]** Jan 2024 – Jun 2024

*Technologies: Python, Groq-AI, Streamlit*

* Architected a Streamlit application for data visualization, handling datasets over 2,00,000 data points with Pandas library and leveraging Matplotlib/Seaborn for complex plotting.
* Integrated LLM API for generative code synthesis, automating the creation of data visualizations and providing actionable insights, reducing manual analysis time by 75%.
* Implemented Retrieval-Augmented Generation (RAG), enabling querying and generating real-time responses from LLMs, automating query generation for over 200 different data scenarios.

**3D Virtual Agent** Jan 2025 – Mar 2025

*Technologies: Python, Langchain, llama 3.3, Reverie AI, Azure Cognitive Services, OCR Scanner, React*

* Integrated **Reverie AI Speech-to-Text (STT)** with 86% transcription accuracy to transcribe user speech, applied prompt engineering to tailor queries for LLMs, and converted responses back to audio using **TTS** for real-time interaction.
* Built a **live OCR scanner** that extracts Aadhaar details with around 85% accuracy, reducing manual data entry time by **75%**

and allows users to review or edit the extracted details, enabling **on-the-spot KYC verification**.

* Integrated a **custom chatbox** into the web UI for seamless agent-customer communication, improving usability and accessibility.

# Technical Achievements

* **Amazon ML School 2024**– **Selected in the top 1% of 60,000 applicants**.[ Acknowledgment Letter]
* **Java – 5 Star Rating** on HackerRank.