Sparsh Hurkat

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Education

Vellore Institute of technology, Vellore, India   **July 2022**
Bachelor of Technology in Electronics and Communication Engineering   **GPA: 8.3/10**
Relevant Coursework: Data Structures and Algorithms, Problem Solving and OOP, Information Theory and Coding.

Experience

Software Engineer, Moneyview, Bangalore, India   **July 2022 – Present**

- Developed and maintained multiple specialized internal portals for Operations, Collections, Lending, and Compliance teams, adding new product lines, streamlining workflows and improving efficiency.
- A key team member in a company-wide UI redesign, successfully implementing a standardized design system and modern coding practices. We enhanced code quality, UX, developer efficiency, and performance.
- Mentored 2 junior developers by providing company infrastructure training and Javascript/ReactJS foundation guidance.

Projects

An AI Test Generator - [Link] **|** [GitHub]   **Aug 2024 - Sept 2024**
A website which takes any PDF(Textbook) as input and generates a custom examination/quiz paper.

- Implemented **Retrieval-Augmented Generation** with a **Pinecone Vector DB** using **Langchain**.
- Utilized **NextJS** to develop the website to aid in **Search Engine Optimization** of the tool.
- Reduced token usage using Prompt engineering with the **Gemini API**.

A Chatbot Resume - [Link] **|** [GitHub]   **June 2024 - July 2024**
A personal portfolio website displaying my academics, skills and projects. Equipped with a custom AI chatbot.

- Implemented the end-to-end development lifecycle, with **Figma** for an interactive UI and smooth UX, **NextJS** for frontend and server-side handling and database management using **MySQL** with **TiDB**.
- Integrated **Gemini API** with the **Vertex AI SDK** to generate LLM responses.
- Implemented **Langchain** to optimize prompts and reduce token usage

Video KYC(Know-Your-Customer) portal   **May 2024 - July 2024**
A web application enabling company agents to conduct real-time video calls with customers for authenticating their identities, ensuring compliance with local regulatory requirements.

- Integrated **AWS Chime** for video calling, **Google SSO** for authentication and **Microsoft clarity** for analytics.
- Implemented **Optical Character Recognition (OCR)** technology to automate document verification, validating customer information and ensuring accurate **face matching**.
- Successfully transitioned from an external service provider to an **in-house implementation**, streamlining operations and realizing significant cost savings for the company.

Calling portal   **Nov 2023 - Feb 2024**
An internal portal for the company's agents to perform and manage all company incoming and outgoing calling operations.

- Integrated a **VoIP tool with WebRTC** from Ameyo, a local calling service provider, to enable seamless communication.
- Led the **frontend development** and coordinated the integration with the external service provider, ensuring smooth functionality.
- Championed the adoption of modern development practices, including **TypeScript** and **Test-Driven Development** using Jest, to enhance code quality and developer efficiency.

Skills

Languages: ReactJS, NextJS, TypeScript, SQL, Java, Python.
Tools: Amazon AWS, React-testing-library, Figma, Photoshop.

Extracurricular Activities

- Technical Head, IEEE Electromagnetic Compatibility Society, Vellore - 2021
- Youth Red Cross Society - 2020