

Pruthvi Parade

Software Engineer

Innovative software engineer with **2.5+** years of experience specializing in AI-driven applications and full-stack development. Proven expertise in developing **RAG** systems, **Agentic AI** workflows, and **LLM integrations**. Passionate about creating scalable AI solutions that deliver tangible business value through intelligent automation.

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📍 Pune, India

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WORK EXPERIENCE

Gen-AI Developer Cloudredux

11/2023 - Present

Pune, India

Projects/Achievements

- **DocXter**: Architected an enterprise-grade **RAG** system with real-time document interaction using **NextJS**, **Vercel AI SDK**, **FastAPI** and **Weaviate VectorDB**, implemented agentic workflows via **LangGraph** for autonomous task execution.
- Redesigned the knowledge base architecture and data pipeline, resulting in a **70%** improvement in document loading speeds through optimized database structuring and retrieval algorithms, implementing strategic caching mechanisms to ensure optimal performance at scale.
- **SEO AI**: Built an intelligent content generation app using **LangChain** for orchestrating **web scraping**, **LLM interactions**, and tool calling, Automated extraction and analysis of top-ranked articles from keyword specifications using **Pandas**, Integrated tool calls for retrieving and writing documents in Google Drive via **Google Cloud Console** resulting **80% reduction** in time to generate optimized article by content team.
- **EduAssist**: Engineered an intelligent content processing system using **PyMuPDF** and **Layout Parser** for advanced PDF data extraction and vectorization, while implementing **BERTopic** for automated topic modeling to generate structured learning modules for an educational platform.

Research Trainee

Sinhgad Institute of Technology

01/2023 - 05/2023

Pune, India

Projects/Achievements

- Enhanced user experience by designing an intelligent prediction system, incorporating caching mechanisms that improved suggestion accuracy and reduced response time from **3s to 500ms**.
- Analyzed text files written in Sanskrit detecting mistakes in grammar, optimized algorithms for faster reading and spell check, smart suggestion/prediction for better user understanding.

Software Engineer Intern

Integrated Active Monitoring

08/2022 - 12/2022

Pune, India

Projects/Achievements

- **CMS Portal**: CMS is a real-time alert monitoring system that allows multiple operators to monitor remote locations for security purposes. Spearheaded the modernization of the CMS platform by upgrading the frontend to **React** and the backend to **FastAPI**, resulting in significant improvements in performance and scalability.
- Designed and implemented a custom messaging protocol using **WebSockets** to handle alerts and events in real-time, significantly improving the responsiveness and effectiveness of the CMS platform.
- **RFID Inventory**: Constructed a user-friendly dashboard and graphical visualization to present millions of data points of inventory stock status in simple and intuitive manner using **React**, **FastAPI** and **Postgres**.

SKILLS

AI/ML Technologies: LangChain, LangGraph, Vector DB, Retrieval Augmented Generation (**RAG**), Agentic AI, Model Context Protocol (**MCP**), Fine-tuning, Vercel AI SDK, Vertex AI

Programming Languages: JavaScript, Python, C++,

Frameworks & Libraries: NextJS, ReactJS, NodeJS, FastAPI, OpenCV, Tesseract

Cloud & DevOps: AWS (S3, Lambda, EC2), Firebase, Docker

Databases: PostgreSQL, Firebase, Redis

Problem Solving: Data Structures and Algorithms

EDUCATION

Masters of Computer Applications
(06/2022 - 07/2024)

Pursued MCA from Sinhgad Institute of Technology secured a CGPA of **8.2**

PERSONAL PROJECTS

ConvoCraft (04/2024 - Present)

Built end-to-end **RAG** system with agentic workflows for understanding users' knowledge base. Implemented **Model Context Protocol (MCP)** for automating workflows with Google Drive integration. Generated artifacts for code and document creation with tool calling using **Vercel AI SDK**.

Agentic-AI-Operator
(01/2025 - Present)

Built browser **agent system** extending **browser-use** framework for AI-powered web automation. Integrated support for multiple **LLM providers** (Google, OpenAI, Anthropic). Developed custom browser support with persistent sessions and HD screen recording capabilities

Training and Placement Cell
(03/2022 - 06/2022)

Connected colleges & students for recruitment events. Built training platform quizzes for campus drives. Improved student prep *used React to design professional UI and FastAPI to manage the micro-services*.

ADDITIONAL INFORMATION / VOLUNTEERING EXPERIENCE

Participated in Basket Ball Tournaments and served a volunteer in college Cultural Fest.