

Rhythm Sharma

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Professional Summary

Portfolio

Driven and proactive AI/ML enthusiast with hands-on experience in developing advanced AI solutions, including RAG-based chatbots and voicebots, demand forecasting models, and IoT data analytics dashboards. Proficient in Python, machine learning frameworks, cloud technologies (AWS), and backend development with FastAPI and databases. Skilled in data processing, real-time analytics, and deploying scalable applications using Docker and microservices architecture.

Experience

Zypp Electric AI/ML Intern

Dec 2025 – Present
Gurgaon, Haryana

- Built **Zia Phase 2**, an Agentic RAG chatbot with voice-enabled low-latency **ASR and TTS**; integrated OpenAI **GPT-4.1** with custom prompt and tool optimization using a tool manager to streamline processes
- Developed an AI-powered **Damage & View Validation** system that automatically verifies vehicle views, detects damages, validates rider number plates, and maps damages to penalty workflows by comparing ride start/end images using **GPT-4o Vision**; built the backend with **FastAPI, SQLAlchemy Async, MySQL, Pillow, and OpenAI Vision APIs** with automated damage-to-part ID mapping for database ingestion
- Engineered **Zypp Saathi**, an agentic real-time voice assistant for delivery pilots using **OpenAI Realtime 2, Pipecat, and LiveKit WebRTC**, enabling low-latency voice interactions, role-aware tool access, live operational support, and ticket escalation; integrated **Qdrant Vector DB, FastAPI, SQLAlchemy Async, APScheduler, and RAG-based retrieval** for knowledge search and real-time business data access

Airish Technologies AWS Intern

June 2025 – Aug 2025
Noida, Uttar Pradesh

- Contributed to **AWS cloud migration** by delivering tailored cloud solutions and configuring services for clients
- Developed **AWS pricing calculators** to optimize client costs; managed backend cloud infrastructure and data operations using Python; supported company-wide data analysis for project evaluation

Projects

Tennis Match Analysis System (GitHub)

[Machine Learning]

- Developed a computer vision system to detect players, track the tennis ball, identify court keypoints, and generate annotated match videos with player movement, ball speed, and gameplay analytics.
- Tech Stack:** Python, OpenCV, PyTorch, YOLOv5/YOLOv8, NumPy, Pandas, Roboflow.

EchoStack (GitHub)

[Artificial Intelligence]

- Developed a Retrieval-Augmented Generation (RAG) voicebot that ingests documents, generates embeddings, performs semantic retrieval, and answers user queries using LLMs with cited context and tool calling with camera and screen sharing allowance.
- Tech Stack:** Python, FastAPI, PostgreSQL, Docker, LangChain, LangFuse, OpenAI, Redis, Kafka, Vector Search, WebSocket.

Education

Manipal University, Jaipur Bachelor of Technology in Information Technology

2022 – 2026
Jaipur, Rajasthan

Skills

- Languages:** Python, MySQL, JavaScript, HTML/CSS
- AI/ML:** Agentic RAG, LLM Integration, Prompt Engineering, Fine-tuning, Time Series Forecasting, OCR, Hugging Face, OpenAI API, ASR/TTS
- Backend & Data:** FastAPI, MySQL, MongoDB, Redis, Docker, Microservices, ETL Pipelines, CRON Jobs, Vector DBs/Qdrant, IoT Data Processing, Query Optimization
- Cloud & Tools:** Amazon EC2, AWS Lambda, AWS Elastic Beanstalk, Amazon S3, Git, GitHub, Bitbucket, GitHub Copilot, MCP Integration, Postman, Swagger/OpenAPI

Certificates

- AWS Cloud Foundation Certification** — AWS 
- Storage Data Migration - Knowledge Badge Readiness Path** — AWS 
- Introduction to Containers w/ Docker, Kubernetes & OpenShift** — IBM 
- Generative AI: Introduction and Applications** — IBM 