

Darshit Joshi

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Summary

Software Engineer committed to delivering high-quality projects and exceeding expectations. Proven ability to optimize processes, automate tasks, and deliver secure, efficient, and user-focused solutions that drive business success.

Skills

- **Development:** Python, JavaScript, FastAPI, Django, SQLAlchemy, MySQL, PostgreSQL, RabbitMQ, Redis, Celery, WebSockets, React
- **Deployment and DevOps:** Kubernetes, Jenkins, Docker, ArgoCD, Grafana, LogQL
- **AI and Data Analysis:** Generative AI, Stable Diffusion, PyTorch, CUDA, VAEs, LLM fine-tuning, Regression algorithms, LangChain, LangGraph, VectorDB
- **AWS:** EC2, S3, ECS Fargate, Bedrock, Sagemaker, lambda, SQS, AWS connect, AWS transcribe, CloudWatch

Work Experience

Armakuni

AI ENGINEER

Remote

Mar. 2025 - Present

- **Smart Call Assistant:** Developed AI-powered call assistant integrating **ElevenLabs TTS**, **AWS Transcribe STT**, **Amazon Bedrock LLM**, and **OpenSearch** for knowledge base. Implemented features for Google Calendar booking, availability lookup, and real estate broker website building.
- **Medical RAG SMS Chatbot:** Built medical domain RAG chatbot using **Twilio** with comprehensive issue escalation, tracking, and follow-up capabilities for healthcare communication.
- **Gaming Character Generation:** Created text-to-image and image-to-image generation system for consistent character creation in gaming industry using **SageMaker**, **ComfyUI**, and **Qwen image edit models**.

DosePack (Meditab)

SOFTWARE ENGINEER

Ahmedabad

Dec. 2022 - Present

- **API Development:** Designed and implemented RESTful APIs to streamline business workflows, reduce response times by 50%, and enhance system interoperability.
- **Migration Automation:** Automated database migration processes, reducing deployment time by 40% with version control across environments. Created and published PyPi library for the same.
- **Data Engineering and Analytics:** Built ETL pipelines for **data pre-processing, feature engineering and validation** to support analytics. created daily performance statics for stakeholders
- **Real-time Systems:** Developed real-time solutions using **WebSockets**, enabling bi-directional communication for features like **live updates, dynamic dashboards, and notification services**.
- **Authentication Systems:** Designed and implemented secure authentication systems using token-based mechanisms (**JWT**) and role-based access control (**RBAC**). Developed a seamless single sign-on (**SSO**) solution with **OAuth2.0 scopes**.
- **Database Engineering:** Enhanced backend performance by designing a well-optimized SQL database, significantly improving storage utilization and system efficiency.
- **Algorithm Optimization:** Optimized computationally intensive algorithms for **pack-filling slot customizations** and workflow optimizations.

Projects

- **Stable Diffusion:** Developed a project using Stable Diffusion models to generate images. Gained hands-on experience in generative AI concepts, including LORAs, VAEs, CUDA and checkpoints, enhancing my understanding of image generation workflows and model fine-tuning. This project

deepened my knowledge generative AI techniques.

- **Consistent Character Generator:** Text-to-image and image-to-image system for consistent character creation using SageMaker, ComfyUI, and Qwen models. used LoRAs and quantized models to reduce processing time
- **Smart Call Assistant:** AI-powered call system with ElevenLabs TTS, AWS Transcribe STT, Bedrock LLM, and OpenSearch. Features Google Calendar booking and real estate tools.
- **Medical RAG SMS Chatbot:** Healthcare chatbot using Twilio with issue escalation, tracking, and follow-up capabilities.
- **AI Movie Recommendation:** movie recommendation using opensource GenAI APIs.

Education

Dharmsinh Desai University

B.TECH

CGPA: 8.72/10

Nadiad, Gujarat

July. 2019 - May. 2023