

DIVYASREE

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PROFESSIONAL SUMMARY

Engineering Manager with a strong foundation in building Generative AI applications. Hands-on experience with LangGraph, fine-tuning LLMs, and integrating GenAI into product pipelines. Built language agents, automated workflows, and improved user experiences using GenAI. Skilled in model optimization and prompt engineering with a focus on real-world use cases.

EXPERIENCE

- Led AI/ML projects integrating Computer Vision and NLP pipelines.
- Applied GenAI techniques for automating manual workflows and enhancing product capabilities.
- Developed React-based Grocery App to demonstrate full-stack proficiency.
- Fine-tuned domain-specific models to improve performance and response quality.
- Implemented LangGraph for agent-based pipelines and language workflows.
- Coordinated with cross-functional teams and clients to deliver on project goals.
- Used MLflow to manage and streamline model training and experimentation.

Engineering Manager – Machine Learning

SeekRight— Bangalore

Dec 2022– Present

- Led AI/ML projects integrating Computer Vision and NLP pipelines.
- Applied GenAI techniques for automating manual workflows and enhancing product capabilities.
- Fine-tuned domain-specific models to improve performance and response quality.
- Implemented LangGraph for agent-based pipelines and language workflows.
- Used MLflow to manage and streamline model training and experimentation.
- Coordinated with cross-functional teams and clients to deliver on project goals.

Conversation AI Developer

DXC — Bangalore

Sep 2020– Dec 2022

- Designed and deployed intelligent virtual agents using NLP frameworks like Dialogflow.
- Built language agents with custom pipelines to automate support and internal workflows.
- Integrated chatbots with APIs, databases, and analytics to enhance engagement and utility.
- Focused on intent classification, entity recognition, and response generation for high-accuracy dialog systems.
- Integrated a multilingual chatbot to reduce dependency on live agents.
- Reduced live agent transfers through improved automation and NLP accuracy.

Full-Stack Developer (Side Projects)

Self-initiated

Ongoing

- Developed a **React-based Grocery App** demonstrating full-stack skills (React, Flask, PostgreSQL).
- Built end-to-end workflows and interfaces for customers, vendors, and delivery agents.

TOOLS & TECHNOLOGIES

- Programming & Frameworks: Python, JavaScript, React, Flask,
- AI/ML: PyTorch, Scikit-learn, MLflow, HuggingFace, Transformers
- GenAI: LangGraph, Prompt Engineering, LLM Fine-tuning, RAG
- NLP: Transformers, IBM Watson
- DevOps & Cloud: Git, AWS, Azure, Render
- Visualization: Matplotlib, Power BI

CERTIFICATIONS

- • AWS Certified Cloud Practitioner
- • Deep Learning with PyTorch for Medical Analysis
- • GenAI Intensive Course (LangGraph, Agents, LLM Pipelines)

ON-SITE EXPERIENCE

- Deployed ML solutions in Saudi Arabia for road asset digitization using GIS, Google Maps, and ML models.

Project: Language Translator App

Tech Stack:

- **Frontend:** React Native, Expo, React Native Voice, React Native
- **Backend:** Flask (REST APIs), LangGraph, Python
- **LLMs & NLP:** Gemma, Hugging Face Transformers, Prompt Engineering
- **Features:** Translation, Speech Correction, Text-to-Speech (TTS), Multilingual Support
- **Others:** Open-source LLMs (Gemma), LangGraph for workflow orchestration, Prompt tuning for contextual accuracy

Description:

- Designed and developed a mobile app that enables users to translate speech and text between English and Japanese.
- Used **React Native** to create a clean and responsive UI with integrated **speech-to-text** and **text-to-speech** functionality.
- Built **Flask APIs** to handle backend processing, translation routing, and interaction with GenAI models.
- Leveraged **LangGraph** to orchestrate translation flows, including grammar correction and language style improvement.
- Fine-tuned **Gemma** and experimented with **HuggingFace** models for optimized translation quality and latency.
- Applied **prompt engineering** techniques to enhance contextual translations and create a dynamic conversational experience.

Project: Language Translator App

Tech Stack:

- **Frontend:** React Native, Tailwind CSS
- Backend/Database: **Firestore**, Firebase Auth, Cloud Functions
- Deployed on **AWS**
- Features: Role-based access (Customer, Shop Owner, Delivery Person), Real-time order tracking, Notifications, Order status updates

Description:

- Developed a cross-platform grocery delivery application with dedicated user flows for customers, shop owners, and delivery personnel.
- Utilized React Native for a clean, responsive, and mobile-first UI design.
- Integrated **Firestore** for real-time database updates and notification.

- Implemented Cloud Functions to handle backend triggers like order updates, status changes, and notification delivery.
- Enabled smooth coordination between roles using real-time data sync and in-app alerts.

EDUCATION

- • B.E. in Information Science & Engineering – Vemana IT (2014–2018) – 70%
- • 2nd PUC – Deeksha Integrated (2012–2014) – 75% | Math: 99
- • 10th Grade – Deeksha High (2010–2012) – 90%