

ANANDHA SURYA M S

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PROFESSIONAL SUMMARY

AI/ML Engineer with 3+ years of experience building production AI and GenAI solutions using LLMs, RAG, Agentic AI, and machine learning. Delivered systems that reduced requirement-cycle time by 67%, cut manual support workload by 80%, and generated ~\$55K in annual savings. Experienced in Python, LangChain, FastAPI, AWS, Hugging Face, and OCR.

TECHNICAL SKILLS

Languages: Python, SQL, NoSQL (MongoDB)

AI/ML & GenAI: Machine Learning, NLP, LLMs, Generative AI, RAG, Agentic AI, Transformer Models, Embedding Models, OCR, DONUT, Docling, LayoutLM, Prompt Engineering, Vector Databases, LLM Evaluation & Monitoring

Frameworks/Libraries: LangChain, LangGraph, FastAPI, scikit-learn, TensorFlow, PyTorch, NLTK, Pandas, boto3

Cloud: AWS SageMaker, AWS Bedrock, AWS Lambda, AWS Step Functions, AWS ECS, AWS ECR, AWS Fargate, AWS SQS

Tools: Git, Docker, Power BI, Excel

PROFESSIONAL EXPERIENCE

Oracle

Senior AI Engineer

Bangalore, Karnataka, India

June 2026 - Sep 2026

- Automated multi-level vendor due diligence for cloud marketplace onboarding using Agentic AI, covering tax, online presence, address, and business verification.
- Designed a multi-agent evaluation framework for vendor legitimacy and onboarding risk, incorporating business entity verification, sanctions screening, and reputation checks.

ZS Associates

Data Scientist

Bangalore, Karnataka, India

July 2025 - Jun 2026

Agentic ML Drivers Analysis System

- Reduced analyst effort by 60–80% by building an Agentic Drivers Analysis platform that automated data preparation, feature engineering, pruning, modeling, and SHAP-based driver validation.
- Built the platform using FastAPI, LangChain, OpenAI models, Arize Phoenix, and AWS with human-in-the-loop safeguards and production observability.
- Automated leak detection, statistical driver validation, and iterative performance optimization through LLM-driven decision agents.

Garrett Advancing Motion

AI Engineer

Madurai, Tamil Nadu, India

July 2023 - July 2025

RAG-Based Automation for Requirement Engineering

- Reduced acceptance-freeze cycle time by 67% by building a RAG-based requirement retrieval and acceptance recommendation system using Python, LangChain, MongoDB Vector DB, AWS Bedrock, and FastAPI.
- Built a document retrieval pipeline to identify relevant historical requirements and generate LLM-based acceptance recommendations for requirements engineering workflows.
- Containerized the solution using Docker and exposed API endpoints through FastAPI, enabling integration with existing requirements engineering workflows.

Agentic License Management Assistant

- Reduced manual intervention by 80% by developing a ReAct-style LLM agent using Mistral and LangChain to automate license validation, issue resolution, and user onboarding.
- Reduced support resolution time by 70% by orchestrating multi-step license management workflows across validation, troubleshooting, and user access operations.
- Eliminated 70+ recurring support tickets per month using scalable, event-driven workflows with AWS SageMaker, Lambda, ECS, and MongoDB.

Personal Project

TenderIQ: AI-Powered Bid Eligibility Platform

- Reduced tender rejection rates by 83% by building TenderIQ, an AI-powered GeM bid eligibility platform that automated document ingestion, extraction, requirement analysis, and compliance checks.
- Developed multimodal document intelligence pipelines using Docling, DONUT, LayoutLM, TrOCR, LangGraph, LangChain, FastAPI, and AWS SQS.

EDUCATION

Velammal College of Engineering and Technology - B.Tech in Information and Technology

Aug 2019 - June 2023

CGPA - 8.62