AISHWARYA NAGVEKAR

AI ENGINEER

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SUMMARY

Full stack AI Engineer with **4+ years of experience** designing and deploying production-grade Generative AI and ML systems for enterprise impact. Led the development of an **AI-powered CVE Agent** leveraged by users to automate vulnerability insights—**cutting manual analysis time by 60%** and boosting **customer transparency by 30%**. Delivered an **Innovation Assistant** to accelerate **R&D ideation cycles by 30%** using GenAI frameworks (**LangChain, LangGraph, OpenAI and Azure**). Engineered a **Predictive Maintenance System** for oil and gas plant assets, achieving **95% model accuracy** and **20% reduction** in downtime through scalable ML pipelines. Adept at building end-to-end solutions with **React.js, FastAPI, MongoDB, and modern LLMs**—**driving efficiency, insight automation, and business value** across domains.

SKILLS

- ➤ **Programming language**: Python, SQL. **Web & Frontend:** React.js, HTML, CSS, JavaScript.
- ➤ **Machine Learning & Deep Learning**: TensorFlow, PyTorch, Scikit-Learn, Keras
- ➤ **NLP**: Hugging Face Transformers (BERT, GPT), SpaCy, NLTK, Sentence Transformers
- ➤ **Generative AI & LLMs**: LangChain, Langgraph, OpenAI GPT, Google Gemini, Meta LLaMA, Groq
- ➤ **Embeddings & Vector Databases**: OpenAI Embeddings, FAISS, ChromaDB
- ➤ **Data Visualization**: Power BI, Tableau, Matplotlib, Seaborn, Plotly
- ➤ **Databases**: MongoDB, MySQL
- ➤ **Cloud & Deployment**: Azure Cloud Services, Streamlit
- ➤ **MLOps**: Docker, CI/CD pipelines

PROFESSIONAL EXPERIENCE

AI Engineer at L&T Technology Services   **Nov 2021 – PRESENT**

- ➤ **CVE Agent (Contractor at Cisco)**
  - ➤ Engineered and deployed an **end-to-end RAG-driven platform** with React.js frontend and FastAPI backend, enabling users to interactively analyze vulnerability pen test PDFs, chat with LLMs, and query internal/external CVE databases.
  - ➤ Accelerated bug resolution tracking and release note access for customer-facing disclosures, and increasing **customer transparency scores by 70%**.
- ➤ **Innovation Assistant**:
  - ➤ Developed a GenAI platform for a leading US automotive enterprise, **reducing research & development cycle time by 30%.**
  - ➤ Automated categorization of 1,500+ topics, **accelerated monthly reporting by 95%**, and implemented real-time chatbot for large-scale knowledge queries using LangChain, Azure, and MongoDB.

- ➢ **Predictive Maintenance System:**
  - ➢ Delivered predictive models with **95% accuracy** for large Saudi Arabia based Oil & Gas plant sensor analytics, which **reduced downtime** by **20%.**
  - ➢ Build a feature to pause anomaly detection during shutdowns, significantly **reducing false positives by 90%**, improving reliability.

- ➢ **Medical Data Redaction:**
  - ➢ Designed medical data redaction PoC using Microsoft Presidio and Azure Video Indexer for GDPR/HIPAA-compliant processing**, minimizing manual audit time by 40%**.

EDUCATION

Master of Technology in Computational Engineering and Networking (AI and Data Science)
Amrita Vishwa Vidyapeetham, Amrita University

Bachelor of Engineering in Electronics and Communications Engineering
Agnel Institute of Technology and Design, Goa University

CERTIFICATIONS

Machine Learning with Business Applications, IIMB, Bengaluru.

Applied ML for operational optimization and automation.

Advanced Retrieval for AI with Chroma, Deeplearning.ai

Built RAG-powered PDF chatbot leveraging LangChain, OpenAI Embeddings, and FAISS.

PROJECTS

Supply Chain Management Dashboard: Real-Time Visibility and Predictive Insights

Implemented dashboard for predictive inventory tracking, supply-demand analysis, and risk mitigation across enterprise teams.

PDF Chatbot with RAG Architecture

Developed LangChain-based chatbot utilizing Streamlit to process and summarize PDF documents using OpenAI embeddings and FAISS.