

MEERA VANATHI

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 GitHub
 LinkedIn
 Portfolio

EDUCATION

B.Tech in Computer Science and Engineering (Cyber Security)

Shiv Nadar University, Chennai

2022–26

CGPA: 8.62

Senior Secondary Education

Vedic Vidyashram Sr. Secondary School, Tirunelveli

2021–22

Percentage: 95

EXPERIENCE

Intern – Ericsson India

Data Scientist

Jul 2025 – Present

Hybrid

- Built AI agents for Master Data Management to automate validation, enrichment, governance and better accessibility.
- Integrated database platforms via Model Context Protocol (MCP) for seamless enterprise data access.
- Enhanced decision automation pipelines using LangChain and Azure AI services along with observability.
- Implemented Responsible AI guardrails ensuring safety, transparency, and compliance.

Intern – BlueScope Information Technology

Java & Platform Developer

May – Jun 2025

Perungudi

- Designed a job application portal on Fingress (low-code/no-code platform), streamlining candidate submission workflows
- Developed backend services for a banking web application using Java and Apache Tomcat 49 server, improving data reliability a.
- Enhanced front-end by integrating JavaScript-based dynamic UI components, resulting in smoother user experience.

Trainee Programmer – Congruent Solutions

PEG Department

Jun – Jul 2024

Guindy, Chennai

- Developed an interactive participant portal for retirement schemes using React and React Router DOM, improving user accessibility.
- Collaborated with cross-functional teams through Azure DevOps using Git for seamless version control.
- Structured JSON-based configurations enabling dynamic, server-driven UI updates, boosting efficiency by nearly 30%.
- Implemented comprehensive Jest unit tests to validate UI components and ensure stability across multiple user scenarios.

RECENT PROJECTS

Multi-Agent E-commerce Chatbot: Python, LangChain, LangGraph, Groq API, OpenWeatherMap API

- Developed autonomous multi-agent chatbot for orders, product lookup, and support.
- Integrated Groq LLM with LangChain and LangGraph for dynamic reasoning and API use.

CloneX: React, Node.js, Express, MongoDB, Redux, Tailwind CSS, Firebase

- Built a full-stack social app with Firebase authentication and Redux Toolkit state management.
- Optimized backend APIs and implemented responsive UI with Tailwind and React hooks.

Sentiment Analysis: TensorFlow, NLTK, Gensim, scikit-learn

- Implemented NLP pipeline with tokenization, lemmatization, and TF-IDF extraction.
- Trained models achieving high sentiment accuracy using confusion matrix & F1 metrics.

Intrusion Detection System: Python, scikit-learn

- Benchmarked 10 ML models for intrusion detection with 92% accuracy.
- Used normalization, feature selection, and validation for reliability.

TECHNICAL SKILLS

Languages: Python, Java, SQL

Tools & Platforms: Azure AI Foundry, FAISS, Qdrant, Git, AWS, Docker, Fingress, MCP, Word, Azure Monitor, OpenTelemetry, Hugging Face, Groq

AI/ML: Gen-AI (LLaMA, Mistral, Gemma), RAG Pipeline, ML Models, LangChain, LangGraph, PyTorch, scikit-learn, Guardrails(RAGAS, Nemo)

Cybersecurity: Wireshark, Nmap, Burp Suite

ACHIEVEMENTS

Finalist: Pragyaan Hackathon NIT Trichy

2024

Top 15: Hack-O-Holics Jeppiar University

2023

CERTIFICATIONS

Complete Web Dev Bootcamp Udemy

2023

Genetative AI Microsoft

2024