Navaneeth Rampally

AI / ML Engineer Trainee

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Professional Summary

Results-driven AI/ML Engineer Trainee with expertise in Agentic AI, Generative AI, and Machine Learning pipelines. Skilled in LLM fine-tuning, Retrieval-Augmented Generation (RAG), autonomous agents, and deep learning solutions. Strong background in cybersecurity, enabling the design of secure, scalable, and production-ready AI systems. Experienced in cloud deployment (GCP, AWS), MLOps, and full-stack AI applications.

Core Competencies

- Artificial Intelligence & Generative AI: Agentic Workflows, RAG Systems, LLM Fine-tuning, Prompt Engineering, Multi-Agent Systems (LangChain)
- Machine Learning & Deep Learning: CNNs, NLP, Computer Vision (OpenCV), Sentiment Analysis, Embedding Models (ELM)
- Programming & Frameworks: Python (Advanced), PyTorch, Scikit-Learn, Hugging Face, Groq API, Streamlit, Vector Databases
- Cloud & MLOps: Google Cloud Platform (GCP), Cloud Run, Docker, AWS (EC2), CI/CD (Cloud Build, GCR), Git/GitHub, Linux (Ubuntu)
- Cybersecurity & Data Forensics: SOC Monitoring, Vulnerability Assessment, Secure System Architecture

Professional Experience

CPSIT Technologies LLP - AI/ML Engineer Trainee

Oct 2025 - Present | Hyderabad, India

- Designed and deployed Agentic AI workflows using LLMs to automate complex reasoning and decision-making tasks.
- Built RAG pipelines to enhance accuracy and reduce hallucinations in domain-specific AI models.
- Integrated Groq API for high-performance inference, achieving low-latency conversational agents.
- Developed full-stack AI applications with Python backends and Streamlit dashboards for real-time user interaction.

CyberMSI - Cybersecurity Intern

Aug 2025 - Sep 2025 | Remote

- Conducted SOC workflow monitoring and anomaly detection using Python-based data analysis.
- Automated security reporting and log analysis, reducing manual effort by 30%.
- Applied cybersecurity principles to strengthen AI model robustness and ensure secure data handling.

Featured Projects

End-to-End Sentiment Analysis Pipeline & MLOps Deployment

GitHub: https://github.com/navaneethrampally/Sentiment-Analysis
- Built a modular NLP pipeline with automated data ingestion from Hugging Face and preprocessing via NLTK.
- Trained a classification model in Scikit-Learn with integrated logging for transparency and performance tracking.
- Containerized the application using Docker and deployed on Google Cloud Run with CI/CD automation.
- Developed an interactive Streamlit dashboard for real-time sentiment inference on movie reviews.

Python Tutor Chatbot - OOP & Groq API Integration

GitHub: https://github.com/navaneethrampally/Python-Tutor-Chatbot
- Designed and developed a Python-based tutor application to demonstrate and implement Object-Oriented Programming (OOP) concepts.
- Leveraged Groq API key integration for efficient inference and enhanced interactive learning experiences.
- Implemented modular class structures, inheritance, and encapsulation to showcase real-world applications of OOP principles.
- Focused on building a scalable, educational tool that reinforces Python programming fundamentals while exploring API-driven workflows.

Certifications

- AI/ML Engineer Trainee - CPSIT Technologies (Ongoing)
- Python Programming Certification - Lasya Infotech (Advanced Automation & Scripting)
- CompTIA Security+ - Global Certification in Secure System Architecture

Education

St. Martin's Engineering College, Hyderabad (2020 - 2024)

- Bachelor of Technology (B.Tech) in Information Technology

- CGPA: 7.67