DEEPA ANANTHAN AR

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LinkedIn — Portfolio

Professional Summary

Driven Software Engineer and final-year B.Tech student in AI & Data Science with hands-on experience engineering high-performance AI/ML solutions. Proficient in Python, **Generative AI**, **LLMs**, and **RAG** architectures. Experienced in using **Azure** for deploying ML models and integrating APIs for scalable, secure applications.

Technical Skills

Languages: Python.
AI & Machine Learning: Generative AI, LLMs, RAG, NLP, NER, Deep Learning, **Linear Regression (LR)**, Computer Vision
Libraries & Frameworks: TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy, OpenCV, Hugging Face, LangChain
Cloud & DevOps: AWS (S3, EC2, SageMaker), IBM Watson, FastAPI, Flask, Git, GitHub
Tools: VS Code, Jupyter Notebook, Power BI, Google Analytics, n8n

Professional Experience

AI & Cloud Engineering Intern — Edunet Foundation (IBM) — Remote
Jul 2025 – Aug 2025

- Engineered and maintained cloud-based AI workflows on **IBM Watson**, reducing inference latency by **20%**.
- Integrated APIs to enable seamless data exchange between models and frontend applications.
- Deployed scalable solutions following secure coding and robust architecture principles.

Key Projects

AI Career Adviser (Generative AI & RAG) — Python, NLP, LLMs

- Built a GenAI system to analyze resumes and provide personalized learning guidance.
- Implemented NLP and NER to extract skills and integrated LLMs for context-aware advice.
- Designed architecture supporting **RAG** for real-time job market data.

Financial Services Customer Churn Analysis — Python, Excel, Power BI

- Business Context: addressed a key Financial Services challenge by analyzing customer behavior data to improve retention strategies.
- Action: Performed data cleaning and feature engineering to identify trends and patterns contributing to customer attrition.
- Result: Developed a predictive model with 82% accuracy and created an interactive dashboard to present risk factors to business decision-makers.

Customer Churn Prediction — Scikit-learn, Pandas

- Developed predictive model achieving **82% accuracy**.
- Utilized **Linear Regression (LR)** and classification algorithms to analyze customer behavior.

Real-Time Vehicle Detection — YOLOv5, PyTorch, OpenCV

- Built computer vision system with **82% accuracy** for tracking vehicles, speed, and distance.
- Optimized model for real-time performance.

Education

Bachelor of Technology (B.Tech) in Artificial Intelligence and Data Science
Nehru Institute of Engineering and Technology — Coimbatore, India 2022 – 2026
CGPA: 7.83 / 10

Achievements & Certifications

- Winner: Splunk Hackathon (Awarded 17,000 INR prize) – Demonstrated rapid prototyping and teamwork.
- Ranked Top 49: Naukri Campus Young Turks 2025 – Recognized for analytical and engineering potential.
- Certifications: Microsoft Azure AI Fundamentals, AWS Academy Machine Learning Foundations, IBM AI with Python.