DHEERAAJ PINJALA

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EDUCATION

Northeastern University (Khoury College of Computer Sciences) **Boston, Massachusetts**
Master of Science in Computer Science *Sep'25 - Present*
- Courses: Programming Design Paradigm (Java), Web Development, Algorithms, Artificial Intelligence

Sri Sivasubramaniya Nadar College of Engineering (SSN) | GPA: 3.53/4.0 **Chennai, India**
Bachelor of Technology in Information Technology *Aug'19 - May'23*
- Courses: Data Structures & Algorithms in C++, Software Engineering, Machine Learning, Big Data Engineering, DBMS

TECHNICAL SKILLS

Languages: TypeScript, Python, Bash, JavaScript, C, C++, SQL
Frameworks & Libraries: React, Next.js, FastAPI, TensorFlow, Scikit-learn, Langchain
Cloud & DevOps: Azure DevOps, Kubernetes, Docker, OpenStack, Linux (RHEL), Airflow
AI & Other Technologies: Prompt Engineering, Retrieval-Augmented Generation (RAG), Agentic AI, ChromaDB, MySQL

WORK EXPERIENCE

Hewlett Packard Enterprise (HPE) - Aruba Networking **Bengaluru, India**
Software Engineer *Sep'23 - Aug'25*
- Improved observability by 40% by developing and enhancing the NOC Dashboard in HPE Aruba Networking Central using React, FastAPI, and Prometheus, enabling a dynamic centralized view of network health, usage and events.
- Deployed backend microservices as containers on OpenStack-provisioned VMs using Docker and Kubernetes, leveraging auto-scaling to ensure consistent delivery of new features across production environments.
- Eliminated $300K in annual resource waste by optimizing resource allocation across production environments using Python-based predictive analytics and time-series forecasting on network telemetry.
- Collaborated with cross-functional teams to integrate AI/ML models on telemetry data lakes as microservices, generating proactive alerts and recommendations for network health, device performance, and end-user experience.

Hewlett Packard Enterprise (HPE) - Global Technology Center **Bengaluru, India**
Software Engineer Intern *Mar'23 - Aug'23*
- Supported deployment validations, design reviews, and incident response, contributing to quality standards and gaining hands-on experience with enterprise-scale system architecture.
- Created automation scripts in Bash that reduced manual configuration time by 30%, improving efficiency for network function setup and validation tasks.

SSN Coding Club **Chennai, India**
AI/ML Core Member *Jun'22 - Feb'23*
- Mentored 50+ students on machine learning fundamentals, guiding them in data science techniques and providing hands-on experience with relevant frameworks and libraries.
- Led brainstorming sessions and organized 10+ AI/ML workshops and hackathons, increasing student participation by 150% and contributing to 5+ coding competition wins.

PROJECTS

Multi-Agent AI Researcher System | *Next.js, Typescript, React, AgenticAI, RAG*
- Reduced academic research synthesis time by 75% by building a multi-agent AI system that automates paper analysis, generates literature review by orchestrating 5+ specialized agents, integrating 6+ academic APIs, and implementing RAG with vectorDB and a real-time LLM-powered chat interface for context-aware Q&A.

Indian LegalGPT | *React (Vite), FastAPI, Groq, Python, ChromaDB, Mistral-7B*
- Boosted user engagement by 40% by creating a multilingual legal assistant, fine-tuning Mistral-7B with RAG using ChromaDB for semantic document retrieval, and engineering a low-latency LLM pipeline with FastAPI and Groq, which supports Hindi and English legal queries with accurate domain-specific reasoning.

DeFi Security Suite | *Python, Web3.py, LLAMA2, Slither*
- Enhanced DeFi security by detecting smart contract vulnerabilities and assessing Ethereum transaction risks in real-time across 500+ contracts by designing a platform that uses GenAI and LLaMA 2, integrates Slither and Web3 monitoring, and generates AI-powered security reports with automated anomaly detection and proactive threat analysis.

Credit Score Analysis using Machine Learning | *Python, Google Colab, TensorFlow, Seaborn*
- Built and evaluated 10 stacked ensemble models using Logistic Regression, Decision Trees, and Random Forest, achieving 98.6% accuracy in multi-class credit risk prediction by classifying high and low-risk creditors and addressing class imbalance with CTGAN, SMOTE, and bootstrapping.

ACHIEVEMENTS

- Secured 2nd place in the coding competition 'CODERA' at the college technical symposium 'INVENTE'.
- Semi-Finalist (Top 1%) out of 20,000+ teams at HackWithIndia, sponsored by Microsoft.
- Led the planning and execution of quizzes and tech talks for the ACE Employee Connect program at HPE.
- Recognized for exceptional mentorship in technical skill development at HPE, achieving 95% satisfaction rate from junior engineer feedback evaluations.