

DHEERAJ PINJALA

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EDUCATION

Northeastern University <i>Master of Science in Computer Science</i>	Boston, Massachusetts 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 <i>Bachelor of Technology in Information Technology</i>	Chennai, India Aug'19 - May'23
Courses: Data Structures & Algorithms, Software Engineering, Distributed Computing, Machine Learning, Big Data Engineering, DBMS	

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, C/C++, Java, Bash
Frameworks: React, Node.js, FastAPI, REST APIs
Cloud & DevOps: Kubernetes, Docker, Helm, OpenStack, Linux
AI/ML: Retrieval-Augmented Generation (RAG), Large Language Models (LLM), TensorFlow, ChromaDB, LangChain

EXPERIENCE

Hewlett Packard Enterprise (HPE) - Aruba Networking <i>Software Engineer</i>	Bengaluru, India Sep'23 - Aug'25
<ul style="list-style-type: none">Developed a network monitoring dashboard using React and FastAPI that displays real-time device health metrics, collaborating with Product and NOC teams to identify critical alerts for 50+ network operatorsDesigned REST API endpoints using FastAPI to expose device health, performance metrics, and alert data to the monitoring dashboardContainerized backend monitoring services using Docker and Kubernetes and deployed across multiple OpenStack VMs, creating Helm charts for consistent deployments and reducing manual configuration stepsImproved real-time visibility by automating network monitoring with Python pipelines to collect logs, parse metrics, detect anomalies, trigger alerts, and update dashboardsBuilt an LLM-based tool using RAG to search network logs and troubleshooting documentation, helping engineers quickly locate relevant information during incidentsLed React and Python ramp-up sessions for interns, aligning training with business use cases and production practices	
Hewlett Packard Enterprise (HPE) - Global Technology Center <i>Software Engineer Intern</i>	Bengaluru, India Mar'23 - Aug'23
<ul style="list-style-type: none">Supported senior engineers in NF deployment design reviews and later executed validation testing workflows independentlyWrote Bash scripts to automate repetitive network configuration tasks, reducing manual setup steps for validation environmentsDeveloped unit and integration tests for backend APIs using pytest, improving test coverage and identifying bugs before deployment	
SSN Coding Club <i>AI/ML Core Member</i>	Chennai, India Jun'22 - Feb'23
<ul style="list-style-type: none">Taught machine learning fundamentals to 50+ students through weekly workshops, covering supervised learning, neural networks, and practical applications using Python, scikit-learn, and TensorFlowOrganized coding competitions and hackathons focused on AI/ML challenges, guiding students through problem-solving approaches	

PROJECTS

Multi-Agent AI Researcher System <i>Python, AgenticAI, RAG, FastAPI, React</i>	
<ul style="list-style-type: none">Built an AI research assistant using multiple specialized agents to search academic databases via APIs, synthesize papers and generate literature reviews, while providing research-related contextual answers through a chat interface	
Indian LegalGPT <i>Python, ChromaDB, Groq, Mistral-7B, React, FastAPI</i>	
<ul style="list-style-type: none">Created a bilingual (Hindi/English) legal information chatbot using RAG with ChromaDB for document retrieval and Groq/Mistral-7B for inference, supporting language toggle and accurate contextually relevant responses	
KAMBAZ Application <i>MongoDB, Express.js, React, Node.js</i>	
<ul style="list-style-type: none">Built a NU Canvas-inspired learning management system using MERN stack with Redux state management, RESTful APIs, JWT authentication, and MongoDB database design, supporting course creation, assignment workflows, and multi-role user management	
Google Calendar <i>Java, Java Swing, JUnit</i>	
<ul style="list-style-type: none">Developed a calendar application in Java using MVC architecture with three interfaces (headless, interactive, Swing GUI), implementing Singleton and Command design patterns to support multiple calendars, timezone-aware scheduling, event copying, and Google Calendar-compatible exports	
Credit Score Analysis using Machine Learning <i>Python, Google Colab, TensorFlow, Seaborn</i>	
<ul style="list-style-type: none">Implemented a multi-class credit risk model classifying high- and low-risk creditors, achieving 98.6% prediction accuracy by leveraging stacked ensemble techniques and addressing class imbalance with CTGAN, SMOTE, and bootstrapping	