

# Laxmi Sai Maneesh Reddy Jupalle

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## EDUCATION

### University of Illinois - Chicago (UIC)

Master of Science in Computer Science

GPA: 3.80

Coursework: Distributed Systems, Artificial Intelligence, Machine Learning, Data Science, Networking, DBMS, DevOps, GenAI.

Aug 2024 – May 2026

Chicago, IL

### Jain (Deemed to be University)

B.Tech in Computer Science and Technology in Artificial Intelligence

GPA: 3.72

Coursework: Machine Learning, Deep Learning, NLP, HCI, Data Structures, DAA, DBMS, Data Science, AI

Jul 2018 – Jul 2022

Bengaluru, KA

## WORK EXPERIENCE

### VMware by Broadcom

Bengaluru, KA

Technical Support Engineer

May 2023 – Jul 2024

Associate Technical Support Engineer

Aug 2022 – Apr 2023

- Leveraged expertise in APIs, certificates, and XML to streamline profile integration and enhance system performance.
- Drove issue resolution for thousands of clients, directly ensuring uninterrupted operations and system uptime.
- Conducted deep investigations into Apple platform issues, contributing to improved enterprise mobility solutions.
- Standardized Jira ticket workflows with clear reproduction steps and environment details, reducing developer-tester communication loops by 40%.
- Demonstrated expertise in Apple–VMware environment troubleshooting, leveraging server log analysis and configuration audits to isolate and resolve complex compatibility issues.

### Ifortis Corporate

Bengaluru, KA

Campus Ambassador (Technical Lead)

Mar 2020– Jul 2020

- Directed 30+ technical bootcamps on Python and algorithms, facilitating code reviews and hands-on debugging sessions for 200+ participants.
- Spearheaded a developer upskilling program, curating technical resources and mentoring 50+ students in full-stack project deployment and architecture.

## TECHNICAL SKILLS

**Programming Languages:** C, C++, Python, Java, JavaScript, TypeScript, Rust, SQL, HTML, CSS

**Frameworks & Libraries:** React, Django, TensorFlow, PyTorch, Scikit-Learn, NLTK, Hadoop

**Cloud, DevOps & Tools:** AWS, Azure, Docker, Jenkins, APIs, LLMs, Ubuntu, Kali Linux

**Analysis:** Machine Learning, Data Analysis, PowerBI, Tableau, MS Office

**Languages:** English, Telugu, Hindi, Japanese

## PROJECTS

### Golden Bridge: Ambulance Pre-Arrival System

Dec 2025

1st Place, Microsoft-Sponsored Hack with Chicago

- **Architected** multi-agent orchestration system using LangChain and GPT-4 for intelligent triage automation, implementing automated coordination between diagnostic, severity scoring, and treatment agents with human oversight.
- **Engineered** real-time streaming with Pathway, Kafka, FastAPI, and WebSockets for sub-second latency EMS vitals transmission, deployed on Azure with Docker demonstrating scalable service architecture.

### Insurease

Jan 2025 – May 2025

- Built a website with LLM-powered document analysis system using GPT-Nano/Gemini Flash APIs with vector/graph search (Qdrant/Neo4j) to extract, compare, and simplify insurance documents.
- Designed a scalable architecture with modular tools (Extract, Query, Analyze, Compare) that refine queries, parse documents, and enable intelligent decision-making through integrated LLM workflows.

### ResearchAI

Dec 2024 – Jan 2025

- Developed a full-stack website with AI research assistant (React/TypeScript, Node.js) for users to upload and interact with research papers via an AI chatbot with summarization and Q&A.
- Architected a secure, multi-LLM backend API (JWT, RLS, Supabase) and designed a responsive UI (Tailwind CSS) with drag-and-drop uploads and real-time chat.

## PUBLICATIONS

### Diabetic Retinopathy Detection using ML

Jan 2022 – Jun 2022

- Designed a 5-layer CNN to classify X-ray images with 94.5% accuracy.
- **Published and awarded International Best Researcher by ISSN.**
- [www.ijariit.com/manuscript/diabetic-retinopathy-detection-using-machine-learning/](http://www.ijariit.com/manuscript/diabetic-retinopathy-detection-using-machine-learning/)

## AWARDS AND RECOGNITIONS

### VMware vExpert 2023

2023

- Recognized for demonstrated expertise and community contributions in virtualization and cloud infrastructure technologies through technical evangelism and thought leadership.