

Tharani Vadde

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EDUCATION

Iowa State University

Graduation: Dec 2025

MS in Computer Science (GPA: 3.5)

Ames, IA, USA

KL Deemed to be University

July 2019 – April 2023

Bachelors in Computer Science (GPA: 9.2)

Vijayawada, India

WORK EXPERIENCE

Iowa State University

Ames, USA

Graduate Research Assistant

AUG 2024 – Present

- Conduct research on optimizing neural network architectures for 3D object classification.
- Develop and test deep learning models using PyTorch, implementing improvements through hyperparameter tuning and optimization.

Red Hat

Pune, India

Data Analyst

AUG 2023 – NOV 2023

- Analyzed and interpreted complex datasets to generate actionable business insights.
- Streamlined data collection and cleaning processes for enhanced decision-making efficiency.

Informatica Business Analytics

Bangalore, India

Quality Assurance Intern

JUNE 2022- JULY 2023

- Conducted rigorous testing to ensure product functionality, scalability, and performance.
- Identified and resolved software issues, improving overall product quality and reliability.

CERTIFICATIONS & SKILLS

Certifications : Microsoft Azure DevOps and Developer Certified (AZ-400, AZ-204) , Oracle Cloud Architect Associate Certified, Cambridge English: Business Preliminary (BEC) **Skills:**

Programming : C++, Python, Java, Javascript, React, Node.js

Tools: DBMS, Unix, Azure Cloud, Tableau , Informatica

Data Science: Machine Learning , Data Visualization , Data Analysis

Additional: Software Testing Automation, Problem Solving

PROJECT EXPERIENCE

Dynamic Graph CNN for Point Cloud Classification:

AUG 2024 – PRESENT

Developed and implemented a Dynamic Graph Convolutional Neural Network (DGCNN) for 3D object classification, utilizing PyTorch to process point cloud data. The model dynamically constructs k-nearest neighbor (k-NN) graphs in high-dimensional feature space, enabling efficient learning of local geometric structures. This project showcases expertise in deep learning for 3D vision, graph neural networks, and computer vision, with potential applications in autonomous systems, robotics, and augmented reality.

Food Waste Management System:

JAN 2023 – MAY 2023

Designed and developed a Java-based web application using Tomcat, Eclipse, and JDK to reduce food wastage and improve food security. Implemented an Admin Module to coordinate donors and recipients, ensuring efficient food distribution. Created Donor and Donee Modules with features for scheduling, mobile communication, and user management. Utilized Java and CSS for robust backend and frontend performance, ensuring scalability and reliability. This Project showcases expertise in web application development, system scalability, and real-world problem-solving in the social sector

Supply Chain Management Business System:

JAN 2022 – APRIL 2022

Designed a supply chain management system using Django and Python, incorporating recommendation systems and search algorithms to enhance operational efficiency and implemented user -friendly interfaces and collaborated with cross functional teams to ensure seamless system integration. This project demonstrates full-stack development skills, data-driven optimization, and AI integration in business logistics to reduce costs and improve operational effectiveness.