

Harika Yarlagadda

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Education

University of Minnesota Duluth

Master of Science in Computer Science - CGPA: 3.87/4.00

Aug' 2023 - May 2025

Duluth, MN

Bapatla Engineering College

Bachelor of Technology in Computer Science and Engineering - CGPA: 9.58/10.0

Aug' 2019 - Apr' 2023

Andhra Pradesh, India

Technical Skills

Languages: Python, Java, C, C++

Data Science/ML: Machine Learning, Artificial Intelligence, Deep Learning, AutoML, MLOps, OCI Data Science, Power BI

Web/Backend: JavaScript, Node.js, React, HTML/CSS, MySQL, Django

Tools/Frameworks: Git, Android Studio, AWS (Basics), Hadoop, VS Code

Concepts: OOP, DSA, Software Design Principles, Agile & Sprint Planning

Soft Skills: Team Collaboration, Public Speaking, Problem-Solving, Proactive Learning

Project Experience

Auto Insurance Customer Churn Detection | *Machine Learning, Python*

- Designed and assessed machine learning models incorporating Random Forest, reaching 74% accuracy on a dataset of customer records through data wrangling, preprocessing, and hyperparameter tuning. developed proficiency in predictive analytics, feature engineering, and model evaluation measures (such as AUC-ROC).
- Complied with specifications by using industry-standard software development life cycle procedures, such as testing, debugging, and code repair.

Image Captioning Method | *Deep Learning, Machine Learning Models, Python, Computer Vision*

- Convolutional and recurrent neural networks were used to build a model that produced visual descriptions. Training on large image datasets and optimizing data preparation led to a 20% increase in accuracy.
- Carried out testing and debugging, operating independently, to make sure the model fulfilled performance requirements.

BulldogOnBoard | *Flutter, Figma, Git, Sprint Planning, UI/UX Design*

- In order to streamline the onboarding process for recently enrolled students, a mobile application using Flutter was developed to offer a centralized platform for accessing academic assistance, event information, and campus services.
- Working in a collaborative setting, I addressed needs through clear written and verbal communication while utilizing sprint planning and Git for version control.

Research and Professional Experience

Graduate Research Assistant

University of Minnesota Duluth

Aug' 2024 - May 2025

Duluth, MN

- Developed a HIPAA-compliant neonatal health monitoring system; integrated vitals monitoring, geolocation, and secure media handling with GoPro APIs, Bluetooth/Wi-Fi pairing, Amazon Alexa for voice automation and analyzed usability data from 30 participants, achieving 70% strong approval in surveys.
- Validated prototypes in simulated NICU settings, focusing on data analytics for vitals and feedback.

Graduate Teaching Assistant

University of Minnesota Duluth

Aug' 2023 - May 2024

Duluth, MN

- Supported C++ programming courses, mentoring students on debugging, optimization, and core concepts including data structures.
- Collaborated with classmates and instructors in a group setting, reviewing and analyzing course materials such as references and specifications to provide students with effective support.

Web Developer Intern

Exposys Data Labs

May' 2022 - June 2022

Bengaluru, India

- Using Java, HTML, CSS, JavaScript, and MySQL, I created a secure, responsive e-commerce web application that allows for user registration, login authentication, dynamic product listings, carts, and checkout. The frontend is powered by HTML, CSS, and JavaScript, and the backend scripting allows for secure session, inventory, and order history management. This demonstrates my understanding of web and object-oriented application development, as well as my proficiency with Java and SQL for writing and editing programs and relational databases.
- Handled tasks without direct supervision, worked as a team, tested and debugged code to meet specifications, and adhered to SDLC procedures.

Certifications & Professional Development

Virtual Experience Programs (Forage) |Jan 2025

BCG GenAI: Built financial chatbot from 10-K/10-Q data using rule-based logic.

Goldman Sachs: Simulated IT security analysis for governance assessment.

PwC Power BI: Designed KPI dashboards tailored to client needs.

Online Courses:

Responsible AI (Google Cloud, Jan'25) | **Generative AI with LLMs** (AWS, Aug'24) | **Introduction to Generative AI** (Google Cloud, May'24) | **Machine Learning - Specialization** (Stanford University, Jan'24)