Harika Yarlagadda

612-704-2911 | harika.yarlagadda2002@gmail.com | linkedin.com/in/haarika-yarlagadda
| harikayarly.github.io/github.portfolio/

Education

University of Minnesota Duluth　　　　　　　　　　　　　　　　　**Aug' 2023 - May 2025**
Master of Science in Computer Science - CGPA: 3.87/4.00　　　　　　　　　　*Duluth, MN*

Bapatla Engineering College　　　　　　　　　　　　　　　　　　**Aug' 2019 - Apr' 2023**
Bachelor of Technology in Computer Science and Engineering - CGPA: 9.58/10.0　　*Andhra Pradesh, India*

Technical Skills

Languages: Python, Java, C, C++
Data Science/ML: Machine Learning, Artificial Intelligence, Deep Learning, Power BI
Web/Backend: JavaScript, Node.js, React, HTML/CSS, MySQL, Django
Tools/Frameworks: Git, Android Studio, AWS (Basics), Hadoop, VS Code, MS Office tools
Concepts: OOP, DSA, Software Design Principles, Agile & Sprint Planning
Soft Skills: Team Collaboration, Public Speaking, Problem-Solving, Proactive Learning

Project Experience

Real-Time Workflow Summarization | *Node.js, Gemini CLI, PostgreSQL, HTML*　　　　　**Ongoing**
- Create and deploy a unique Node.js MCP server that is connected to the Gemini CLI. It will keep an eye on designated directories or code repositories, handle system and performance logs, and reply to CLI tool requests with field-specific, AI-powered summaries and analyses, to enhance efficiency and cooperation for researchers, developers, and students.

Online Banking System | *Java, SQL*
- Developed a Banking System application using Java and MySQL to manage customer accounts and track transactions in real-time. Implemented a secure database solution to store customer information and transaction histories, ensuring timely updates as new transactions occur.

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).

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.

Research and Professional Experience

Graduate Research Assistant　　　　　　　　　　　　　　　　　**Aug' 2024 - May 2025**
University of Minnesota Duluth　　　　　　　　　　　　　　　　　　　*Duluth, MN*
- Developed a HIPAA-compliant, non-intrusive monitoring system for real-time tracking of parent-infant interactions in the NICU and achieved 70% strong approval in surveys. Utilized Python Django for secure data transformation and storage, and Java for mobile app development with automated camera control and location tracking.

Graduate Teaching Assistant　　　　　　　　　　　　　　　　　**Aug' 2023 - May 2024**
University of Minnesota Duluth　　　　　　　　　　　　　　　　　　　*Duluth, MN*
- Supported C++ programming courses, helped students on debugging, optimization, and core concepts including DSA.

Web Developer Intern　　　　　　　　　　　　　　　　　　　　**May' 2022 - June 2022**
Exposys Data Labs　　　　　　　　　　　　　　　　　　　　　　　*Bengaluru, India*
- Created a secure, responsive e-commerce online application with capabilities for order management, cart management, dynamic product listings, and user authentication utilizing JavaEE, HTML, CSS, and JavaScript.

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)