SREE HARSHITA MADDIPATI

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Education

Northern Illinois University, DeKalb, IL — *Aug 2024 – May 2026 (Expected)*
M.S. in Operations Management and Information Systems — GPA: 3.7

Institute of Aeronautical Engineering, Hyderabad, India — *Aug 2020 – Jun 2024*
B.Tech in Computer Science and Engineering

Core Competencies

Technical: React, Angular, HTML/CSS/JavaScript, Python, Java, C++, R, SQL, AWS, Pandas, Keras, Tableau, Power BI, Data Analysis, Business Analysis

Concepts: Machine Learning, Deep Learning, AI Integration, Data Analytics, Cloud Solutions, Data Visualization, Database Management, Predictive Modeling, XG boost, Random forest

Soft Skills: Communication, Leadership, Problem Solving, Digital Marketing, Time Management, Presentation Skills

Professional Experience

Research Assistant, Northern Illinois University – College of Health & Human Sciences, Survey Research Lab, DeKalb, IL — *Sept 2024 – Present*

- Conducted surveys and interviews for health and human sciences research projects..
- Collaborated with cross-functional teams to ensure data quality and support patient-related research initiatives
- Supported data entry, cleaning, and analysis to facilitate actionable insights.
- Analyzed healthcare and survey data using SQL and Power BI to generate actionable insights for research projects in the College of Health and Human Sciences
- Developed strong communication, organizational, and analytical skills.

Web Developer Intern – Nikhila Constructions Pvt. Ltd., Hyderabad, India — *Nov 2022 – Jan 2023*

- Built a dynamic corporate website using HTML, CSS, and JavaScript, increasing average session duration by 40%.
- Integrated an AI chatbot that automated 60% of user queries and improved satisfaction by 35%.
- Proposed scalable AI features to improve web functionality and user experience.

Projects

Credit Risk Prediction Using Machine Learning & Deep Learning — *Nov 2025 – Dec 2025*

- Engineered a realistic synthetic credit-risk target to enable supervised learning on unlabeled financial data, simulating real-world banking constraints
- Built and compared end-to-end ML and deep learning models (Logistic Regression, Random Forest, XGBoost, Neural Networks) for credit risk prediction.
- Achieved 99.5
- Translated model outputs into actionable lending insights, supporting smarter loan approvals and reduced default exposure

Alzheimer's Disease Detection Using Deep Learning — *Nov 2023 – Jun 2024*

- Developed CNN/D-CNN models to detect Alzheimer's disease from MRI hippocampus images.
- Preprocessed medical images and improved classification accuracy through augmentation techniques.
- Achieved 97% model accuracy and published research under the guidance of Dr. Mohana Roopa.
- Preprocessed MRI data using Python, improving model accuracy; streamlined ETL workflows for medical image classification.

Healthx – Multi-Function Health App — *Dec 2021 – Mar 2022*

- Created a desktop health utility using Python and Tkinter for BMI tracking, food analysis, and medicine recommendations.
- Focused on intuitive user interface design and feature consolidation.

Leadership & Volunteer Experience

Organizing Committee, TEDxIARE – Hyderabad, India — *Oct 2022 – Jan 2023*

- Managed logistics, speaker coordination, and social media promotion.

Operational Lead, Google Developer Student Club (IARE) — *Aug 2022 – Jul 2023*

- Organized coding competitions, workshops, and outreach events.

Logistics Head, Frost Hacks – Hyderabad, India — *Aug 2023 – Jan 2024*

- Led a 75-member team for event setup, vendor coordination, and scheduling.
- Delivered logistic milestones ahead of time and resolved real-time event issues.

Digital Marketing Co-head, Microsoft Student Community — *Aug 2023 – Aug 2024*

- Spearheaded content creation and digital strategy for brand engagement.