

HARIKA GUMMADI

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Education

Northeastern University, Seattle

2024 – Present

Master of Science - Computer Science (MSCS)

Gokaraju Rangaraju Institute of Engineering and Technology (GRIET)

2020 – 2024

Bachelor of Technology - Computer Science and Engineering

CGPA: 9.04/10

Skills

Languages: C, C#, Python, JAVA, JavaScript, SQL

Frameworks: .Net, Spring, React, Node.js, Bootstrap

Tools/Database: MSSQL, MySQL, PostgreSQL, MongoDB, Git & Github, Figma

Soft Skills: Leadership, Communication, Curiosity, Positive Thinking

Work Experience

Tech Mahindra, Hyderabad | *AI - ML Intern*

May 2023 – July 2023

- * Gained expertise in **training and fine-tuning neural networks**, including deep learning models, enhancing understanding of AI techniques.
- * Developed a **system for automated invoice generation** using **object detection**, reducing checkout time by 30%.
- * Applied **OpenCV** and **YOLOv8** for object detection model training, and created a web application with **ReactJS**, **Flask**, and **MongoDB**.
- * Demonstrated proficiency in **front-end technologies** (HTML, CSS, JavaScript) for developing user-friendly web applications.

Plant Protection Association of India | *Web Development Intern*

April 2023 – Aug 2023

- * Designed and implemented a **user-friendly, visually appealing website interface**, enhancing user engagement by 25%.
- * Developed a **content management system** with **Django** and **Wagtail**, streamlining content creation and modification.
- * Collaborated with a team of **5** to ensure **seamless integration** of design elements and functionality.
- * Successfully **deployed the website** and CMS, making them **accessible to users** and improving online presence.

Projects

Hospital Appointment Management System | *.NET MVC, MSSQL, Bootstrap*

- * Developed a **high-performance hospital appointment management system** using **.NET MVC**, **MSSQL**, and **Bootstrap**, streamlining hospital operations and improving patient management.
- * **Increased efficiency** and **reduced peak-time admissions** by facilitating **patient registration** and **profile management** through a digital platform.
- * Implemented **secure patient authentication** with **MSSQL LocalDB** and designed a **responsive front-end** using **Bootstrap**.
- * Created a **dynamic doctor dashboard** for managing appointments and **integrated Entity Framework** for optimized data storage and retrieval.

NLP-based Document Classification System | *Python, NLTK*

- * Developed an **automated document classification system**, categorizing over **10,000 unstructured documents** using **Python**, **NLTK**, **SpaCy**, and **Scikit-learn**.
- * **Increased document searchability** and **reduced manual categorization time** by 80% through **NLP-based content similarity** and **TF-IDF vectorization**.
- * Applied **text preprocessing** techniques (tokenization, stop-word removal, stemming/lemmatization) to improve classification accuracy.
- * **Optimized document management** for large-scale projects, boosting overall **efficiency** by 50% and improving organization.

HealthHub: Personal Health Management Web Application | *Spring, React, MongoDB*

- * Developed a **scalable, secure health management app**, integrating **third-party APIs** for personalized insights and tracking over **5,000 users' health metrics**.
- * **Boosted user engagement** and satisfaction by 30% through personalized health insights, diet, and exercise tracking.
- * Built the backend using **Spring Boot microservices**, with a **React/Redux** frontend, implementing **robust security** and **data visualization** features.
- * **Enhanced system scalability and security**, ensuring efficient health tracking and data visualization for a growing user base.

Publications

- * Exploring Societal Health Insights: Decentralized Distributed Topic Modeling - **IEEE Xplore**
- * Unveiling Covert Conversational Agents: Enhancing Insight, Archives, and Dialog Acts with ChatGPT - **IEEE Xplore**
- * Enhancing Image Plagiarism Detection Through Perceptual Hashing and Edge Analysis - **IEEE Xplore**
- * Securing Intellectual Property in the Digital Age through Blockchain Innovation - **IEEE Xplore**