

Harsha Maddirala

📍 Dallas, Texas ✉ vxm220023@utdallas.edu ☎ (518)4965533 📁 Portfolio in 🔄

EDUCATION

University of Texas at Dallas, Richardson, Texas

Aug 2022 – May 2024

Master of Science, Computer Science; GPA: 3.73/4.0

- Coursework: Database Design, Machine Learning, Analysis of Algorithms, Artificial Intelligence, Advanced Statistics.

Indian Institute of Information Technology, Sri City, India

Aug 2017 – May 2021

Bachelor of Technology, Computer Science

- Coursework: Enterprise Application Development, Deep Learning, High-performance computing, Cloud Computing.

WORK EXPERIENCE

ShopConnect (nVipani Technologies) 🌐

Software Engineer, *Full-Time*, Bengaluru, India

Jul 2021 – Aug 2022

- Contributed to the development of an E-commerce platform using Angular, MongoDB, Spring Boot, and NodeJS.
- Designed and implemented a new checkout flow with integrations to Razorpay and ShipRocket.
- Collaborated with 7 other developers to implement a video call service using webRTC and WebSockets.
- Integrated Instagram Graph API and built a targeted promotion system, enabling seamless content publication and moderation with a single click. Achieved a 90% reduction in time spent on content publishing tasks.
- Utilized Three.js and model viewer to display and customize 3D product models for interactive visualization.
- Enhanced the application's features, fixed the bugs, and improved the overall performance by reducing the latency of more than 20 APIs by up to 30% using caching and aggregate queries.

Software Engineer Intern, *Full-Time*, Bengaluru, India

Jul 2020 – Dec 2020

- Developed an Order management module with discounts, inventory management, and stock conversions.
- Worked on a widget that enables integration with existing client websites to increase user engagement.
- Wrote scripts to enhance client data management, resulting in time savings of up to 6 man-hours during onboarding.

SKILLS

Languages: (Python, Java, C++, JavaScript, TypeScript, SQL, HTML, CSS)

Frameworks: (Angular, NodeJS, ReactJS, Spring Boot, Django, Three.js, TensorFlow, WebRTC, PyTorch, Flask)

Technologies: (MongoDB, Azure, AWS, GCP, MATLAB, Git, Docker, Jenkins)

PROJECTS

Summarize - Google Workspace add-on, (JavaScript | Python | GCP) 🌐

- Built a Google Workspace add-on service that integrates Google Docs, and Gmail with Cohere API.
- Deployed using Google Cloud Platform, users can generate, and summarize the content on docs and draft AI-generated replies on Gmail with one click. The add-on can be tested by downloading the GitHub repo.

Real Time Tweet Analysis, (Python | Angular | Azure) 🌐

- Developed and deployed a sentiment analysis application using Azure serverless architecture and Github actions.
- Trained a regression model on 1.6 million tweets with an 89% overall accuracy for sentiment analysis.
- Used Azure functions to pull tweets based on user queries and relay the data to an Azure Flask function for prediction.

News Curation Service, (Django | MySQL | NLTK) 🌐

- Utilized NLP techniques to analyze the portrayal of a specific news topic across 4 major Indian news outlets.
- Developed a web application using Django and MySQL as the database to showcase similar news articles from each outlet, providing valuable insights into the different perspectives presented by the media.

Egocentric action recognition, (PyTorch) 🌐

- Worked on a Computer Vision academic project for gesture recognition using hand movements.
- Used LSTM network and observed 73% accuracy on the GTEA dataset.