Harsha Kanaparthi

Charlotte, NC harshakanaparthi03@gmail.com 704 299 4007 hkanaparthi.github.io/MyPortfolio
Harsha HKanaparthi

Education

University of North Carolina at Charlotte *Expected May 2026 GPA: 4.0/4.0*
Masters of Science in Computer Science

Koneru Lakshmaiah University *Sep 2020 - May 2024*
Bachelors in Computer Science *GPA: 9.47/ 10*

Experience

Artificial Intelligence Intern *Andhra Pradesh, India*
Lineysha & Thevan Software Company *July 2023 – Dec 2023*

- Collaborated in a team to design and develop a facial recognition web application aimed at identifying missing children, achieving 99.41% accuracy using convolutional neural networks (CNNs)
- Built and integrated the model into a web application using Flask and React, enabling real-time image processing and user interaction.
- Preprocessed large image datasets, applied data augmentation, and evaluated model performance using precision, recall, and F1-score.

Intern - RPA & Cloud Computing *Virtual*
AICTE (All India Council for Technical Education) *October 2021 – May 2022*

- Created chatbots and automated email workflows using Blue Prism to improve task efficiency and user communication.
- Gained hands-on experience with AWS services like EC2, S3, and Lambda for deploying and managing scalable cloud-based solutions.
- Integrated RPA bots with cloud platforms to automate data handling, reporting, and system notifications.

Publications

Revolutionizing Road Safety: CNN-based Traffic Sign Recognition 2024

10.1109/ICICV62344.2024.00014

Skin Disease Detection and Recommendation System using Deep Learning and Cloud Computing 2023

10.1109/ICCES57224.2023.10192759

Projects

GoWeather *Code*

- Developed an electronic classroom where multiple users can simultaneously view and draw on a "chalkboard" with each person's edits synchronized
- Tools Used: Go language, SQL

QR based attendance System

- Designed a classroom attendance system with dynamic QR/manual codes refreshing every 3 minutes to prevent spoofing.
- Used Google Maps API to restrict check-ins to within 0.3 miles of the session location.
- Tools Used: Next.js, Node.js, Express.js, MongoDB

Missing Child Classification System

- Developed a deep learning-based face recognition system using VGG-Face and CNN to classify missing children, achieving 99.41

- Deployed the model through a Django web portal with OpenCV integration for real-time image upload and automated classification.

Technologies

Languages: C, C++, JAVA, Python, HTML, CSS, JS, PHP

Databases: PostgreSQL, SQL, MongoDB

Web Technologies: React.js, Node.js, Angular, Typescript, GraphQL, Jest, Bootstrap, RESTful APIs

Testing & Debugging: Unit Testing, Integration Testing.

Visualization: Tableau

Cloud Technologies: AWS, Azure

Prototype: FIGMA

Machine Learning Libraries: TensorFlow PyTorch, Keras, scikit-learn, Numpy, Pandas