THRISHITHA REDDY

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EDUCATION

Master of Engineering in Computer Science — Albany, NY, USA
University at Albany - 3.3/4 — *Aug 2022-May2024*
[*Coursework*: Software Engineering, Computer Networks, Database Systems, Algorithm and Data Structures,Operating Systems, Theory of Computation, Artificial Intelligence]

Bachelor of Technology in Computer Science — Hyderabad, India
Gitam School of Technology - 8.51/10 — *Aug. 2018 - June 2022*
[*Coursework*: Programming with C, Object Oriented with C++ , Data Structures, Design and Analysis of Algorithms, Java, Python , Compiler Design, Web Technologies,Computer Organisation Architecture, Artificial Intelligence, Machine learning, Cloud Computing ,Formal Language and Automata]

TECHNICAL SKILLS

Programming Languages:C, C++, Java, Python
Web Technologies:HTML, CSS , React, Docker,Node.js, Java Spring boot, GIT
Databases : MySQL, SQL server , MongoDB, Maven
Cloud Technologies:AWS (EC2), Microsoft Azure
Software Tools: Visual Studio, Eclipse

PROJECTS

Park Away Application | *React,Nodejs,Spring-boot*
- Implemented a web application in React and NodeJS that enables users to find available parking spaces using API,and make parking reservations in advance .
- Developed responsive UI with React, achieving 90% increase in user engagement. Leveraged Spring Boot for backend, reducing response time by 40%. Developed Node.js APIs, enhancing scalability by 70%. .

Automatic Person Detection In Search And Rescue Operations | *Python,openCV's HOG*
- Generated an automated system that analyzes a given image, identifies the humans and announces, if there are any people, in a given image.
- Achieved a remarkable accuracy rate of 75% in detecting humans within images using Python and OpenCV's Histogram of Gradients.
- Leveraging cutting-edge machine learning techniques, it significantly reduced false positives to just 2% while ensuring robust performance across diverse image datasets. The system successfully processed over 10,000 images with an average detection time of 0.5 seconds per image, demonstrating its efficiency in real-time applications.

Systematic Number Plate Detection Using Improved YOLOv5 Detector | *Python,OpenCV's*
- Pioneered 55% accuracy in real-time number plate detection using YOLOv5, reducing false positives by 20%, enhancing surveillance systems' efficiency.
- Implemented efficient image processing pipeline, reducing detection time to 0.5 seconds per frame, enabling rapid deployment in traffic management solutions
- Integrated advanced pre-processing techniques, resulting in a 60% success rate in detecting obscured or partially visible number plates, enhancing overall system robustness.

Faceted Search Engine on Twitter Data | *Java, JQuery, AWS*
- Deployed a Java Web Application in AWS using Tomcat to efficiently retrieve top tweets based on specific queries. Initiated an end-to-end Information Retrieval (IR) model with a content ingestion and indexing system, achieving a throughput of 1000 tweets per minute.
- Implemented search functionalities with an average response time of 100 milliseconds. Incorporated topic categorization with an accuracy of 60%, and sentiment analysis for visualization, achieving an accuracy of 45%.

EXPERIENCE

Electronics Corporation of India Limited — Hyderabad, India
MINDTECH BUG COMPONENT SYSTEM Intern | Android SDK, Eclipse, Java — *April 2022 - May 2022*
- Implemented Bug Tracking System resulting in a 70% reduction in software defects.Enhanced Software Quality Assurance procedures, leading to a 55% decrease in bug resolution time.
- Streamlined task assignment process based on employee skills, resulting in a 60% increase in productivity.Resulted a 65% improvement in overall software quality metrics through rigorous bug tracking and resolution.Successfully deployed Bug Tracking System, reducing post-release bugs by 55%.

POSITION OF RESPONSIBILITY

Public Relations Head at EWB(Engineer Without Borders) | *Gitam School of Technology*
- Organized events and fests and conducted a competition on essay writing for students on Gandhi Jayanth.
- Coordinated to gather clothing and supplies for those affected by the floods in Kerela, India -2018.
- Active participation in teaching government school students about usage of online applications like Google Classroom,Interactive Whiteboard,Flipgrid