

SAI CHARAN REDDY JILLELLA

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EDUCATION:

The University of Texas at Arlington, Texas

Graduation: May 2024

Master of Science: Computer Science

Coursework: Data Mining, Web Data Management, Cloud Computing, Software Engineering, Python, Data Analysis and Modelling Techniques, Algorithms, Machine Learning, Artificial Intelligence, Computer Networks, Database Systems.

Visvesvaraya National Institute of Technology, Nagpur, India.

Graduation: May 2022

Bachelor of Technology: Electronics and Communication Engineering

Coursework: Object Oriented Programming, C, Image analysis and Computer vision, Data Structures and Algorithms, Computer Architecture and Organization.

TECHNICAL SKILLS:

Programming Languages: Python, C, C++, JavaScript, MySQL, and Java.

Full Stack Development: React JS, HTML, CSS, and PHP.

Libraries/Framework: OpenCV, PyTorch, Pandas, Scikit-Learn.

Operating Systems: Linux, Windows.

Developer Tools: Git, GitHub, PyCharm, Visual Studio, JIRA, AWS

Other: Cloud Computing, Machine Learning, and Computer Vision, Docker, Kubernetes.

PROJECTS:

Website for Underrepresented Minority Candidates

June 2023-Aug 2023

- As a part of group of 4, developed a web platform aimed at connecting underrepresented minority candidates with job opportunities and educational resources, addressing the diversity gap in the workforce.
- Implemented an Agile Software Development approach, adhering to the Software Development Life Cycle (SDLC), to ensure efficient project management and timely delivery of milestones.

Real time Chat app

Sept 2023-Dec 2023

- Developed a real-time chat platform enabling users to register and engage in seamless communication with other platform users.
- Used HTML, CSS, MySQL, PHP and React.js to deliver working functionality and seamless user experience

Real time Automatic Polyp Detection in White light Endoscopy videos

Aug 2021-May 2022

- Developed a machine learning model to facilitate the detection and tracking of polyps in white light endoscopy videos, crucial for early diagnosis and treatment.
- Used extensive data preparation and augmentation techniques to create a highly accurate dataset for best model performance.
- Used YOLO for precise polyp detection in endoscopy video frames and integrated DeepSORT for robust polyp tracking, resulting in impressive MOTA (Multiple Object Tracking Accuracy) of 0.53 and 0.65 and MOTP (Multiple Object Tracking Precision) of 0.71 and 0.73 for video1 and video2, respectively.

ACHIEVEMENTS:

Participated in the 1st International Conference on Paradigm Shifts in Communication, Embedded Systems, Machine Learning, and Signal Processing (PCEMS) in Nagpur, India, 2022:

- Co-authored and published a paper titled "Real-time Automatic Polyp Detection in White light Endoscopy videos using a combination of YOLO and DeepSORT" in the conference proceedings.
- Conducted extensive research and experimentation, collaborating with a team of researchers and professionals.