

# SAI CHARAN REDDY JILLELLA

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[sai-charan-10 \(Sai Charan reddy\) \(github.com\)](#)

## 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, Data Structures and 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, Computer Architecture and Organization.

## TECHNICAL SKILLS:

**Programming Languages:** Java, Python, C, C++, JavaScript, SQL.

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

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

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

**Other:** Cloud Computing, Machine Learning, Distributed Systems

## PROJECTS:

**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.
- Utilized HTML, CSS, MySQL, PHP, React.js to deliver working functionality and seamless user experience.

**Website for Underrepresented Minority Candidates**

**June 2023-Aug 2023**

- Designed a web platform, as part of a group of 4, 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 Automatic Polyp Detection in White light Endoscopy videos**

**Aug 2021-May 2022**

- Trained a machine learning model for the detection and tracking of polyps in white light endoscopy videos, reducing the chance of missing a polyp by 30-40%.
- Employed extensive data preparation and augmentation techniques to create a highly accurate dataset of 2289 images, resulting in a 90% accuracy for YOLO.
- Used YOLO for precise polyp detection in endoscopy video frames and integrated DeepSORT for robust polyp tracking, achieving 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.