

# SAI CHARAN REDDY JILLELLA

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## Education:

**The University of Texas at Arlington, Texas**

**Graduation: May 2024**

Master of Science: Computer Science

Data Mining, Web Data Management, Cloud Computing, Software Engineering, Python Programming, Data Analysis and Modelling Techniques, Design and Analysis of Algorithms, Machine Learning, Artificial Intelligence, Computer Networks

**Visvesvaraya National Institute of Technology, Nagpur, India.**

**Graduation: May 2022**

Bachelor of Technology: Electronics and Communication Engineering

Oops, Machine Learning, C Programming, Image analysis & Computer vision, Data Structures and Algorithms, etc.

## Technical Skills:

**Programming Languages:** C/C++, Python, JavaScript, R/RStudio, SQL, Kotlin, .NET, C#, Java, Matlab.

**Full Stack Development Technologies:** React JS, Express JS, Node.js, Next.js, HTML/CSS, PHP, Flask [LAMP, MERN].

**Operating Systems:** Windows, Linux/Unix.

**Database Technologies:** MySQL, PostgreSQL, MariaDB and MongoDB.

**Developer Tools:** Git, GitHub, PyCharm, Visual Studio, JIRA, AWS, Linux / Unix, SSH, RStudio, EMACS.

**Microcontrollers:** Arduino, Java Script programming and Micro:bit Python.

## Projects:

**Real time Automatic Polyp Detection in White light Endoscopy videos [YOLO and DeepSORT]**

**Aug 2021-May 2022**

- Developed a model that enables doctors to detect and track polyps in white light endoscopy videos. Implemented cutting-edge data preprocessing and enhancement techniques to curate a highly accurate dataset for training the polyp detection model.
- Implemented YOLO for accurate polyp detection in endoscopy video frames, integrating DeepSORT for robust polyp tracking. Achieved impressive MOTA (0.53, 0.65) and MOTP (0.71, 0.73) for video1 and video2, respectively.

**Website for Underrepresented Minority Candidates [ReactJS, Node.js, MySQL]**

**Jun 2023-Aug 2023**

- As a part of group of 4, spearheaded the end-to-end development of a web platform that connects underrepresented minority candidates with job opportunities and educational resources.
- Utilized HTML, CSS, React.js, and PHP, MySQL to deliver seamless functionality and user experience.
- Ensured data privacy and security measures were in place to protect user information, with MySQL serving as the backend database system.

**Railway Reservation System [ReactJS, Bootstrap, Django, MySQL, REST API]**

**Jan 2023-April 2023**

- Designed a web-based platform that enables users to manage their railway travel booking. This platform allows users to easily book, cancel, schedule, and get refund.
- Worked with MySQL, ReactJS, Django, and Bootstrap CSS for development.

**Real time Chat app [ReactJS, PHP, MySQL]**

**Sept 2023-Dec 2023**

- Created a platform which enables users to register and chat with the users of the platform. Used HTML, CSS, MySQL, PHP and React.js to deliver working functionality and seamless user experience

## Achievements:

**Presented and published a paper at the 1st International Conference on Paradigm Shifts in Communication, Embedded Systems, Machine Learning, and Signal Processing (PCEMS) in Nagpur, India, 2022.**

- "Real time Automatic Polyp Detection in White light Endoscopy videos using a combination of YOLO and DeepSORT," Sai Charan Reddy Jillella, C. Venkatesh, S. Sinha and S. Mazumdar
- Engaged in knowledge sharing and networking with leading experts, researchers, and professionals in the fields of communication, embedded systems, machine learning, and signal processing.