

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 Managing Applications of Underrepresented Minority Candidates [ReactJS, Node.js, MySQL]

Jun 2023-Aug 2023

- Spearheaded the end-to-end development of a cutting-edge web platform that connected 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. Worked with MySQL, ReactJS, Django, and Bootstrap CSS for development. This platform allows users to easily book, cancel, schedule, and get refund.

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.