SAI CHARAN REDDY JILLELLA

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EDUCATION:

The University of Texas at Arlington, Texas   **August 2022-May 2024**
Master of Science: Computer Science   **CGPA:3.67**
Coursework: Data Mining, Web Development, Software Engineering, Python, Data Structures, Algorithms, Artificial Intelligence, Computer Networks, Database Systems.

Visvesvaraya National Institute of Technology, Nagpur, India.   **July 2018- May 2022**
Bachelor of Technology**:** Electronics and Communication Engineering
Coursework: Object-Oriented Programming, C, Image analysis and Computer vision, Computer Architecture.

SKILLS:

Programming Languages: Java, Python, C, C++, JavaScript, SQL.
Web Development: React.js, Node.js, HTML, CSS, and PHP.
Libraries/Framework: OpenCV, PyTorch, Pandas, Scikit-Learn.
Developer Tools: Git, GitHub, PyCharm, Visual Studio.
Other: Cloud Computing, Machine Learning, Distributed Systems, Hadoop.

PROJECTS:

Patient Insurance Management System
- Developed a web-based platform that allows users to easily communicate with their doctor, schedule appointments, and manage their insurance plans via their respective accounts.
- Collaborated on the development and reduced platform response time by 25%, leading to increased user satisfaction.

Chat App
- Engineered a real-time chat platform enabling users to register and engage in communication with other platform users and achieved a 20% month-over-month growth in user registrations for 2 months.
- Utilized HTML, CSS, MySQL, PHP, React.js to deliver working functionality and seamless user experience.

Website for Underrepresented Minority Candidates
- Built a website, aimed at connecting underrepresented minority candidates with job opportunities by implementing user-friendly features, including job posting, candidate registration, job applications, and real-time chat functionality.
- These features reduced the communication gap by 50% between candidate and institutions and increased the chance for candidates in getting good opportunities by 70%.

Real time Automatic Polyp Detection in White light Endoscopy videos
- 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 35%.
- Employed extensive data preparation and augmentation techniques to create a highly accurate dataset of 2289 images, resulting in a 90% accuracy for YOLO.
- Utilized 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 and published paper in the 1st International Conference on "Paradigm Shifts in Communication, Embedded Systems, Machine Learning, and Signal Processing (PCEMS)" in Nagpur, India, 2022.
- Participated in an In-Person hackathon on DSA conducted in The University of Texas at Arlington, solving complex problems with 90% accuracy.