SANJAI KOLATHUR REVATHI POOVARAGAVAN

LinkedIn | +91-6382064949 | Website | krp.sanjai@gmail.com | GitHub

EDUCATION

Bachelor of Engineering | Bannari Amman Institute of Technology   Erode, TN, India | **08/2018 - 05/2022**

- Major in Computer Science and Engineering | CGPA: **8.63/10**.
- Relevant Courses: Data Structures, Design and Analysis of Algorithms, Software Engineering, Operating Systems, Software Testing.
- Individual Courses: Artificial Intelligence, Machine Learning, Cybersecurity, Project Management.

EXPERIENCE

Software Engineer | Odessa Technologies   Bengaluru, KA, India / **05/2022 - Current**

- Implemented streamlined project workflows that increased overall efficiency by **30%**. This involved assessing current processes, identifying bottlenecks, and introducing automated tools to expedite project timelines and improve productivity.
- Reduced critical project bugs significantly within **45 days**, enhancing product reliability.
- Owned over **90%** of product change requests, driving efficient implementation and boosting client satisfaction.

Software Engineer Intern | Odessa Technologies   Bengaluru, KA, India | **05/2021 - 05/2022**

- Led collaborative efforts within the development team to achieve specific project requirements, resulting in a notable **40%** increase in overall efficiency. Facilitated effective communication and coordination among team members to enhance productivity.
- Managed client calls during critical issues, ensuring the timely delivery of fixes within designated deadlines.
- Initiated changes, resolved bugs, and deployed updates to maintain project momentum.

SKILLS, TOOLS AND LANGUAGES

- C | C++ | C# | Java | Python | HTML | CSS | Javascript | React.js | Angular | Node.js | MySQL | PostgreSQL | MongoDB.
- AWS | Azure | GCP | CI/CD Tools - Azure DevOps | GitLab | Jira | Trello | Git | Linux | VS Code.
- Microservices | Full-Stack | Cloud Computing | Problem-Solving | Leadership | English, Tamil – *All professional proficiency or above.*

PROJECTS AND RESEARCH

- **Object Detection:** [Python | OpenCV | TensorFlow | Raspberry Pi | Camera Module | IoT Sensors | Machine Learning] – **2022** Engineered advanced object detection algorithms in Python, utilizing libraries like **OpenCV** and **TensorFlow** for image processing and feature extraction. Deployed the system on a **Raspberry Pi** integrated with a high-resolution camera module to capture real-time video feeds. Enhanced model accuracy and efficiency through rigorous experimentation, including hyperparameter tuning and data augmentation. Integrated various IoT sensors to enrich data collection and improve detection capabilities. Seamlessly integrated object detection capabilities into existing systems, enabling real-time recognition and tracking of objects. Collaborated with cross-functional teams to facilitate deployment, providing comprehensive documentation and user training.

- **Weather-Bot:** [MCU | Temperature, Humidity Sensors | Data Transmission Module (Cellular/Wi-Fi) | Solar Panel and Battery] – **2021** Developed Weather-Bot, a low-maintenance, solar-powered weather monitoring station. This automated system uses various sensors to collect real-time data on temperature, humidity, wind speed, and rainfall. Data is wirelessly transmitted via cellular or Wi-Fi to a cloud platform for storage, analysis, and visualization. The system's core is a Microcontroller Unit (**MCU**) that processes sensor data and manages communication. Weather elements are measured by dedicated sensors: temperature and humidity sensors, an anemometer, and a rain gauge. Powered by a solar panel and battery, Weather-Bot's data is accessible through a user-friendly cloud platform for remote monitoring and trend analysis.

- Explored cutting-edge techniques for early-stage cancer segmentation and advanced research by optimizing the **PRS2-OCNN** model with simplified feature sets to accurately classify melanoma lesions by their risk levels.

ACHIEVEMENTS

- Achieved recognition by participating in the **Math Quiz** hosted by the Math Club of Bannari Amman Institute of Technology (12/2019).
- Awarded by the Litz Tech team for contributions during the **Web Designing** Internship (01/2019).

LEADERSHIP AND EXTRACURRICULARS

- Played a key role in the **Leo Club**, organizing a fundraising campaign to support those affected by the 'Gaja' cyclone in Tamil Nadu (November 2018), and handed over **25,000 INR** to the relief efforts.
- Guided freshmen and coordinated orientation events as a mentor in the **CodingCircle** club (2019-2022).
- Partnered with the **NGO Way For Life** to produce over **50** solar lamps, replacing traditional kerosene lamps (2023).
- Supported schoolchildren from underprivileged communities in Sathyamangalam town, assisting with campus cleanup (2018-2022).
- Attended the **AVANTAA 2020** event at Sri Krishna College of Technology (2020), gaining an understanding of fundamental Augmented Reality/Virtual Reality concepts.
- Participated in a national-level **Machine Learning** workshop at Government College of Technology (2020), acquiring knowledge of machine learning algorithms.