SRUJAN RAI

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Education

Sahyadri College of Engineering and Management   **Dec 2021 – Jun 2025**
Bachelor of Engineering in Computer Science (Artificial intelligence and machine learning)   *Mangalore, Karnataka*

Experience

Niveus Solutions   **Oct 2024 - Present**
Intern ,Customer Enginneering   *Mangalore, Karnataka*
- Assisted in deploying and managing cloud solutions on AWS and GCP, optimizing infrastructure for scalability and cost efficiency.
- Supported the migration of legacy systems to cloud platforms (AWS/GCP), ensuring smooth transitions and minimal downtime.
- Contributed to automating cloud operations using scripts to improve efficiency in cloud resource provisioning and management.

Samanvaya Tech LPP, Inc   **Jan 2024 - Sept 2024**
Technical Manager   *Mangalore, Karnataka*
- Directed a team of 5 interns to develop an advanced computer vision algorithm for calculating rotation angles, achieving 95
- Resolved technical challenges through innovative solutions, delivering the project on time and exceeding client expectations.

Projects

Rudraksh | *Next.js, Tailwind CSS, Tensorflow*   **October 2023**
- Developed frontend for a web platform for farmers to identify plant diseases, enhancing crop health management.
- Developed and integrated machine learning-powered APIs for plant disease detection, enhancing crop health management efficiency by 30%.

Safon | *C++,GPS,Arduino*   **November 2023**
- Designed and developed a portable device with calling and tracking features using C++ and Arduino.
- Implemented GPS functionality to enable tracking of the device's location in real-time.
- Integrated communication modules for making and receiving calls.

Diabetic retinopathy detection using machine learning | *Python,TensorFlow,Keras,OpenCV*   **March 2024**
- Engineered a machine learning pipeline in Python for diabetic retinopathy detection, achieving 98
- Optimized image preprocessing using OpenCV to enhance critical features, improving model reliability.
- Evaluated performance with precision-recall metrics, surpassing industry benchmarks.

Technical Skills

Languages: Python, C, HTML/CSS, SQL, C++,JavaScript
Developer Tools: VS Code, Google Cloud Platform, Arduino IDE , Postman, Git,AWS
Technologies/Frameworks: Flask, Django, GitHub, OpenCV, TensorFlow, MySQL,PostgreSQL,Oracle,PyTorch

Leadership / Extracurricular

IOT lead at Sahyadri Open Source Community   **December 2023 – Present**
SOSC   *Sahyadri College of Engineering*
- Leading a team of 50 IoT enthusiasts in the Sahyadri Open Source Community to develop innovative IoT solutions.
- Conducted two hands-on workshops on Computer Vision and AI, attended by 100+ participants, receiving excellent feedback.

Awards

1st place in Roolathon (GDSC SIT 2023): Developed and proposed a solution Finvest, our website, to provide financial education tailored to the needs of underserved populations.

1st place in Parsec (IIT Dharwad 2024) Created a user-friendly financial management website with advanced security measures in place.

1st place in Envision (TCE 2023): Utilized IoT technologies to enable remote monitoring and control of the irrigation system via a web or mobile application.