EDAGOTI SAIKIRAN

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SUMMARY

B.Tech graduate in Artificial Intelligence & Machine Learning with strong skills in Python, Machine Learning, Deep Learning, Data Preprocessing, Computer Vision, and Neural Networks. Experienced in developing end-to-end ML pipelines using TensorFlow, Keras, Scikit-learn, and AWS cloud tools. Completed Microsoft NIIT's 162-hour AI & Data Analytics program, delivering hands-on ML/DL projects. Seeking an entry-level AI/ML role to build scalable models and contribute to data-driven solutions

PROFESSIONAL EXPERIENCE

12/2024 – 02/2025 **AI & Data Analytics**
Microsoft NIIT
- Completed an intensive training program focused on AI, ML, DL, and data analytics, with hands-on experience in building, training, and evaluating machine learning models Gained practical experience through guided labs and project-based learning

01/2023 – 02/2023 **Full Stack Intern**
Swecha
- My web development experiences enhanced my technical skills in both front-end and back- end technologies. Collaborating with co-interns fostered teamwork, improved my communication, and sharpened my problem-solving abilities for future challenges

02/2021 – 12/2022 **Python intern**
Codsoft
- To enhance my projects, I began incorporating various libraries that streamlined development and added functionality. Libraries like NumPy and Pandas enriched my data handling capabilities, while frameworks such as Flask and React allowed for more dynamic web applications. This not only accelerated my workflow but also opened up new possibilities for innovation.

Projects

06/2025 – 05/2025 **Diabetic Retinopathy Detection**
Designed and implemented an automated disease screening system for early detection of diabetic retinopathy from retinal fundus images. Built classification pipelines using both traditional machine learning models and CNN-based deep learning architectures to identify disease severity levels. Conducted extensive image preprocessing including contrast enhancement, normalization, resizing, and noise filtering to improve feature quality. Handled dataset balancing, model training, hyperparameter tuning, and validation using evaluation metrics such as accuracy, precision, recall, and confusion matrix analysis to assess and optimize performance

08/2024 – 11/2024 **Traffic Lights Detection Using Faster RCNN**
Developed a real-time object detection system to identify and classify traffic lights in road-scene images for applications in autonomous driving and intelligent traffic monitoring. Implemented R-CNN based convolutional neural networks to generate region proposals and accurately localize traffic signals under varying lighting, distances, and partial occlusions
Applied bounding box regression and classification pipelines with Non-Maximum Suppression to reduce duplicate detections

Education

2022 – 2025 **Bachelors of technology in CSE (AIML)**
Hyderabad Institute of Technology and management
•CGPA-7.5

2019 – 2022 **Diploma in Mechanical Engineering**
TRR College of Technology
•CGPA-7.5

2018 – 2019 **SSC**
Kk Reddy high school
- CGPA- 9.3

Technical Skills

Python programming
Machine learning
AWS tools
Problem Solving
Adaptability to Change

Publications

05/05/2025 **An Ensemble Approach For Robust Diabetic Retinopathy**
IN IJERT , VOLUME 14