Kalyan Ram Goparaboina

Computer Science Graduate

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Professional Summary

Detail-oriented Computer Science Engineering graduate with a strong foundation in Python, Data Science, and Web Development. Proven track record of building functional applications, ranging from AI-based detection systems to full-stack web platforms. Passionate about leveraging Machine Learning and software engineering principles to solve real-world problems.

Education

2021–2025 **B.E. in Computer Science and Engineering**, *Kamala Institute of Technology and Science*, Telangana, *6.5 CGPA*.

2019–2021 **Intermediate (MPC)**, *SR Junior College*, Telangana, *8.6 GPA*.

2018–2019 **Secondary Education (SSC)**, *Saketha High School*, Telangana, *9.0 CGPA*.

Technical Skills

Languages	Python (Core & Advanced), SQL
Web Development	HTML5, CSS3, JavaScript, Flask
Data Science & AI	Pandas, NumPy, Matplotlib, Scikit-learn, Tesseract OCR, NLP
Tools & Concepts	Git, GitHub, VS Code, Data Structures & Algorithms, Prompt Engineering
Soft Skills	Problem-solving, Adaptability, Team Collaboration, Analytical Thinking

Key Projects

Python, Flask **Bus Booking System**.

- Developed a full-stack web application for online ticket booking, featuring real-time seat availability and route management.
- Implemented secure user authentication and session management using Flask.
- Designed a user-friendly interface for seamless navigation, enhancing the booking experience.

Python, OpenCV **Emotion Detection System**.

- Built an AI-based application capable of analyzing facial expressions to detect human emotions in real-time.
- Leveraged computer vision libraries (OpenCV) and deep learning models to categorize emotions such as happy, sad, and neutral.
- Optimized the model for low-latency inference suitable for live video feeds.

Python, Tesseract **Handwritten to Text Converter**.

- Designed an OCR application to digitize handwritten documents into editable text formats.
- Integrated Tesseract OCR engine with image preprocessing techniques (thresholding, noise reduction) to improve recognition accuracy.
- Created a web interface (HTML/Python) to allow users to easily upload images and download converted text.

Additional Repositories

Restaurant-Menu Digital menu platform integrated with POS systems (Python).

Data-Science-Assignments Comprehensive collection of data science analyses and visualizations (Python, Pandas).

Internship Experience

Virtual **Juniper Networking Internship**, *Juniper Networks*.

- Gained practical knowledge of networking fundamentals, including routing protocols, switching, and network architecture.
- Analyzed network security concepts and best practices for secure data transmission.
- Completed simulation modules focusing on network configuration and troubleshooting.

Certifications

- Data Science using Machine Learning with R and Python – *ExcelR Solutions*
- Generative AI Professional – *Oracle University*
- Python Full Stack – *Brain O Vision*
- Data Science & Machine Learning – *Brain O Vision*
- Python Basics – *Cisco Networking Academy*