KADIYALA RAJESH

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Github: Link | **Mail**:rajeshkadiyalaaa@gmail.com | **Linkedin** : Link | **Portfolio** : Link

Work Experience

Freelance AI Developer ***Remote | Mar 2025 – Apr 2025***

Built an AI writing assistant using React, Node.js, and Python that integrates OpenRouter LLMs for real-time grammar correction, style transformation, and readability improvements. Developed REST APIs, document export features, and modular Python scripts, and deployed the app using Docker and cloud platforms.

Education

Usha Rama College of Engineering and Technology **Dec 2021– May 2025**

Bachelor of technology in Artificial Intelligence & Machine Learning (GPA: 7.7)

Technical Skills

Data Analysis & Machine Learning: Data Cleaning, Data Visualization, Statistical Analysis, A/B Testing, Feature Engineering, Supervised Learning, Model Evaluation, Hyperparameter Tuning, AutoML, Big Data Technologies, Data Governance, Data Storytelling, Critical Thinking

AI & Deep Learning: Artificial Intelligence, Natural Language Processing (NLP), Computer Vision, Speech Recognition, Generative AI, Reinforcement Learning, Neural Networks, Transfer Learning, Optimization Techniques, Model Deployment

Programming & Frameworks: Python, R, SQL, HTML5, JavaScript, Tailwind CSS, Arduino, TensorFlow, PyTorch, Keras, Scikit-Learn, OpenCV, SpaCy, NLTK, Hugging Face Transformers, YOLO, Faster R-CNN, EfficientNet

Data Tools & Visualization: Pandas, NumPy, SciPy, StatsModels, Matplotlib, Seaborn, Plotly, Power BI, Tableau

Databases & Cloud Platforms: MySQL,MongoDB, Google BigQuery, Google Cloud Platform

Development & Deployment: Flask, FastAPI, Streamlit, Git, GitHub

IDEs & Tools: Google Colab, VS Code, Cursor, Kaggle Notebook, PyCharm, Anaconda, Spyder

Core Skills: Problem-Solving, Analytical Thinking, Domain Knowledge, Adaptability, Decision-Making, Active Listening, Technical Communication

Projects

AI Writing Assistant Link

- Developed a full-stack AI-powered writing assistant using React, Node.js, and Python.
- Integrated **OpenRouter LLMs** for real-time grammar correction, tone/style transformation, and content enhancement.
- Created RESTful APIs with **Flask** and **Express**, enabling document generation, editing, and export (PDF, DOCX, Markdown).
- Built modular Python scripts for text analysis using **NLTK** and managed versioned document data with **SQLite**.

Dental Caries Analysis and Recommendation System Link

- Developed a deep learning system using **Mask R-CNN**, **ResNet-50**, and **BERT** to detect cavities, classify severity, and generate personalized dental care recommendations from X-ray images.
- Built a responsive **Flask web application** with real-time detection visualization, severity classification, and user-specific treatment advice.
- Applied **transfer learning**, **data augmentation**, and **class-weighted loss** to improve accuracy on an imbalanced dental dataset.

Adaptive Style Transfer with CycleGAN + AdaIN [Link]

- Implemented a custom CycleGAN with **Adaptive Instance Normalization (AdaIN)** to enable arbitrary style transfer without retraining for new styles
- Built a **Flask-based web app** for real-time user-defined style transfer with adjustable style weight and image upload interface.
- Enhanced style-content separation and image quality using **dynamic feature alignment**, **residual blocks**, and evaluation metrics like **PSNR**, **SSIM**, and **FID**.

Sales Data Analysis with SQL and Streamlit [Link]

- Cleaned and transformed raw sales data using **Pandas**, handling messy CSV formats, encoding issues, and calculated revenue metrics.
- Stored processed data in a structured **SQLite database** and performed analytical queries to extract sales insights by region, product, and time.
- Built static visualizations with **Matplotlib/Seaborn** and an **interactive Streamlit dashboard** using **Plotly** for real-time exploration of revenue, trends, and product performance.