

PEMMADI BALU

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 pemmadibalu.github.io/portfolio

PROFESSIONAL SUMMARY

AI & Python Developer with hands-on experience in building AI-powered applications using Python, Flask, TensorFlow, LangChain, and RAG. Skilled in developing REST APIs, NLP pipelines, and machine learning models. Built projects including AI chatbots, resume analyzers, and deep learning applications. Passionate about solving real-world problems using AI, automation, and data-driven solutions.

SKILLS

- Programming: Python, SQL, JavaScript (basics)
- Web Technologies: Flask, React.js, HTML, CSS, REST APIs
- AI/ML Technologies: Machine Learning, Deep Learning, LangChain, RAG, LLMs
- Tools & Platforms: Git, GitHub, Jupyter Notebook, VS Code, Figma
- Microsoft Tools: Excel, Word
- Soft Skills: Leadership, Problem-Solving, Teamwork, Creativity, Smart Working

PROJECTS

Resume Analyzer - <https://github.com/PemmadiBalu/Resumer-Analyzer.git>

Developed a full-stack Resume Analyzer using React.js and Flask with REST APIs for ATS-based resume screening and real-time feedback. Applied NLP techniques such as text preprocessing, keyword extraction, and skill matching. Implemented automated resume scoring and keyword relevance analysis.

COVID-19 Detection Using Chest X-ray Images -

https://github.com/PemmadiBalu/COVID_19_XRAY_DETECTION.git

Built a CNN-based deep learning model using transfer learning and Grad-CAM to detect COVID-19 from chest X-ray images with 95% accuracy. Used TensorFlow/Keras, OpenCV, NumPy, Pandas, and Scikit-learn for model development and evaluation.

AI Chatbot using LangChain & RAG - https://github.com/PemmadiBalu/Rag_chatboat.git

Developed an end-to-end AI solution using LangChain and RAG, deployed via Flask API and React UI, achieving 90%+ response accuracy on domain-specific queries.

INTERNSHIP EXPERIENCE:

AICTE-Eduskills UiPath RPA Virtual Internship | July 2024 – Sep 2024.

Automated repetitive business workflows using UiPath RPA tools.

Google AI/ML Virtual Internship | Oct 2024 – Dec 2024.

Built and evaluated machine learning models for real-world use cases.

EDUCATION

Bachelor of Technology (B.Tech) Computer Science and Engineering (AI & Data Science)

(2021 – 2025)

Kakinada Institute of Engineering and Technology, JNTUK University 2021 – 2025 | CGPA: 7.38

CERTIFICATES

Python Programming – Edyst

Machine Learning with Go – Infosys

AI and Data Scientist – OneRoadMap

Generative AI Basics – AWS Training and Certification

ACHIEVEMENTS

Actively learned and explored new technologies while participating in the INEURON 24-hour Hackathon.