




PEMMADI BALU

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 pemmadibalu.github.io/portfolio

PROFESSIONAL SUMMARY

Python & AI Developer with hands-on experience in Flask, REST APIs, SQL, Pandas, TensorFlow, and LLM-based applications using LangChain and RAG. Built end-to-end projects including a Resume Analyzer, AI Chatbots, CNN-based image classification models, and AI Agents with 90%+ response accuracy. Passionate about solving real-world problems using AI, data analysis, and intelligent automation.

SKILLS

- Programming: Python, SQL, JavaScript (basics)
- Web Technologies: Flask, React.js, HTML, CSS, REST APIS
- AI/ML: Rag, LLMs, Langchain, TensorFlow, Deep Learning, NLP
- Technologies: microsoft excel, microsoft word
- Tools/Platforms: Git, GitHub, Jupyter Notebook, VS Code
- Soft Skills : Leadership, Problem-Solving, Team Management, Creativity, Smart Working

PROJECTS

Resume Analyzer

Resume Analyzer - Developed a full-stack Resume Analyzer using React.js (frontend) and Flask (backend) with RESTful APIs for ATS-based resume screening and real-time feedback. Applied NLP techniques such as text preprocessing, keyword extraction, and skills matching to analyze resumes and job descriptions. Implemented automated scoring with high accuracy in skills extraction and keyword relevance..

COVID-19 Detection Using Chest X-ray Images

Designed a CNN-based deep learning model using transfer learning and Grad-CAM to detect COVID-19 from chest X-rays with 95% accuracy. Implemented with Python, TensorFlow/Keras, CNN, NumPy, Pandas, Scikit-learn, OpenCV, and developed in Jupyter Notebook & VS Code.

AI Agent using LangChain

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 – Sep 2024.
Automated repetitive workflows reducing manual effort

Google Ai/ML Virtual Internship | Oct – Dec 2024.
Built ML models and evaluated metrics for real-time use cases

EDUCATION

Bachelor of Technology (B.Tech) in Computer Science and Engineering (Artificial Intelligence & Data Science) (2021 – 2025)
Kakinada Institute of Engineering and Technology, JNTUK University | CGPA: 7.38

CERTIFICATES

Python Programming: Edyst.
Infosys: Machine Learning with Go
OneRoadMap: Ai and Data Scientist
AWS Training and Certification -
Generative AI Basics

ACHIEVEMENTS

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