





RAJU BADDELA

A dedicated and an aspiring Software and Technology Engineer with an objective of working in an organization that provides opportunities for technical and personal advancement.

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EDUCATION

B.Tech(Honours) ECE -Electronics and communication Engineering

JNTUH University, Karimnagar.
2019-2023 7.88 cgpa

INTERNSHIPS + TRAINING

Project Intern KMPG Pvt Ltd	Jan-May 2022 Remote
Machine Learning trainee Pantech Solutions Pvt Ltd	Oct-Nov 2021 Remote

PERSONAL PROJECTS

Flight Fare Prediction

Designed and developed scalable end to end machine learning pipeline using Mlops technology. Also developed an entire website system in which we included Dockerfile, Pickle file, .github/workflows for CI/CD pipeline.The main aim of the project is to purchase a ticket many days prior to flight take-off so as to stay away from the effect of the most extreme charges.

Boston House Price Prediction

The goal of this project is to give people an estimate price for their new houses depending upon on various factors.
With the help of **MLOPS** life cycle developed and implementation a website using **CI/CD** pipeline.It was regression problem which gave r2 score of **85%** after tuning parameters.

Lung Disease Prediction

The problem statement related was to medical domain. This Py-Torch project employs modular design to build a lung disease prediction system. It utilizes a Convolutional Neural Network (CNN) architecture for image classification, trained on a chest X-ray dataset. Preprocessing, model building, training, and evaluation modules ensure a well-structured and scalable approach.

MultiLingual-AI-Assistant

This project creates a user-friendly, multilingual AI assistant leveraging Speech Recognition for voice input and Google Generative AI Gemini 1.5 Pro large language model (LLM) for text processing and response generation. Streamlit provides a web-based interface for seamless interaction.

TECHNICAL STACK

Data Science / Machine Learning / Deep Learning / Natural Language Processing

Python, Data Visualization, Supervised learning algos, Unsupervised Learning algos,ANN,CNN,EDA ,Feature engineering,Featureselection&extraction,hyperparameter tuning,Bagging&Boosting algos.YOLO,RCNN, Fast-RCNN,Faster-RCNN,RNN,LSTM,GRU,Encoder, Decoder,Attention,Transformer,BERT,GPT.

Mathematics for ML & DL

Algebra, Probability, Statistics, Calculus, Matrices.

Python packages and Frameworks

Scikit-Learn, Tensorflow, Keras, NumPy, Pandas, SciPy, Beautiful Soup, Flask, Streamlit,Excel,Power-BI.

MLops Tools

CI/CD, Airflow ,ML-flow, DVC, Github actions.

Generative AI

LLMs : OpenAI GPT, Meta Llama, Google Bard
Prompt Engineering : Lang Chain, Llama index, RAGs
Vector Databases : Pinecone, Croma DB, FAISS
Model Fine-tuning : Expertise in adapting and fine-tuning LLMs for specific use cases.

Databases

Mysql-SQL, MongoDB-NoSQL.

Cloud Deployment and containers

AWS ,Heroku ,Git, Docker, Kubernetes.

CERTIFICATIONS

- **Machine Learning course**
Stanford University
- **Tableau course**
Simplilearn
- **Artificial Intelligence in Python**
Great Learning
- **Python**
Hacker Rank

SOFT SKILLS

- **Fast Learner** • **Leadership** • **Optimistic**
- **Problem Solving** • **Communication Skills**
- **Time Management**

INTERESTS

- **AI/ML** • **Software Engineer** • **Developer**