

Kayala Pavan kumar

Data Science | Web development
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ABOUT

B.Tech student in CSE AI with skills in Python, web development, and machine learning. Experienced in Agile and team collaboration.

SKILLS

Programming Languages:

Python | Java | C

Scripting & Markup:

HTML | CSS | JavaScript

Web Frameworks:

Flask | Django

Databases:

MySQL

Data Analysis:

Pandas | NumPy | Exploratory Data Analysis (EDA) | Feature Engineering (FE)

Data Visualization:

Matplotlib | Seaborn

Machine Learning:

Scikit-learn | XGBoost

Deep Learning:

TensorFlow | Keras

Natural Language Processing :

NLTK | SpaCy

Computer Vision:

OpenCV | YOLO

Version Control:

Git | GitHub

Development Practices:

Agile | Scrum | Git-based Collaborative Development (branches, pull requests, version control)

EDUCATION

B. Tech, CSE

NRI Institute of Technology
2022-26 | Eluru, AP
CGPA: 9.0

Intermediate, MPC

Narayana Junior College
2020-22 | Vijayawada, AP
Percentage: 94.6%

LANGUAGES KNOWN

• English • Telugu • Hindi

EXPERIENCE

INFOSYS | Project Intern | Project Repository

Oct 2024 - Nov 2024

- Conducted EDA on IPL datasets, identifying trends like batting order correlation with match outcomes, improving decision-making by 20%.
- Cleaned and preprocessed 100,000+ rows of data, handling missing values and applying feature engineering, boosting model accuracy by 15%.
- Developed machine learning models for match outcome prediction, achieving 88% accuracy.
- Used statistical analysis and forecasting to reduce prediction variance by 25%, enhancing reliability.
- Applied Agile methodology and actively communicated progress in team stand-ups, enabling faster iterations and better cross-functional collaboration.

IBM SKILLSBUILD | Machine Learning Internship | Project Repository

May 2024 – June 2024

- Developed and deployed a sentiment analysis model for classifying restaurant reviews using NLP techniques (tokenization, stopword removal) in Python.
- Applied machine learning techniques and evaluated models with Scikit-learn and NLTK, achieving high classification accuracy.
- Collaborated with peers to integrate the sentiment analysis model into a Flask app, ensuring team communication and smooth real-time predictions.

PROJECTS

ACTION DETECTION FOR SIGN LANGUAGE

Python | Deep Learning

Jan 2025 – Present

Problem: Deaf-mute individuals use sign language for communication, but the normal person often struggles to understand it, creating a barrier.

- Developed a real-time AI-driven sign language recognition system using deep learning (LSTM models) and computer vision techniques to help bridge communication gaps for the deaf-mute community.

NLP-BASED PERSONALIZED BOOK RECOMMENDER

Python | Gradio | LangChain | HuggingFace | ChromaDB | NLP

December 2024

- Developed a book recommendation system utilizing LangChain and OllamaEmbeddings to generate semantic vector representations of book descriptions, enabling efficient similarity searches with ChromaDB.
- Integrated zero-shot text classification and sentiment analysis using HuggingFace Transformers, allowing for mood-based filtering and personalized book recommendations.

CERTIFICATIONS

- Salesforce Certified AI Associate** – Salesforce
- Prompt Engineering Certification** – IBM Cognitive Class AI
- Python for Data Science Certification** – IBM Cognitive Class AI
- Python (Advanced) Certification** – HackerRank (5-star rating)