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Sowmya Kanithi

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Objective

Passionate Machine Learning Engineer with strong proficiency in Python.Experienced in developing ML systems using YOLO,OpenCV,Deep learning with CNNs,and NLP.Skilled in integrating models using tools like OpenCV,NLTK,huggingface,CNNs,streamlit,Scikit-learn,Tensorflow,keras.Actively exploring advanced AI domains including LangChain,(LLMs) and Hugging Face Transformers.Aspiring to contribute as a Machine Learning Engineer by leveraging my expertise to develop impactful AI solutions and thrive in a fast-evolving, innovation-driven environment.

Technical Skills

- **Programming Languages:**Python, C,C++,HTML,SQL,Machine Learning,Deep Learning.
- **Libraries and Frameworks:** NumPy, Pandas, Matplotlib, OpenCV, YOLOv4,TensorFlow,scikit learn,seaborn,NLTK,Hugging Face Transformers
- **Tools and Platforms:** Jupyter Notebook,Google Colab, Pycharm Community,streamlit, Git, Anaconda,Github, VS Code, Dev C++, Matlab, Windows.
- **Databases:** SQL
- **AI Frameworks:**Hugging Face transformers, Langchain
- **Soft Skills:**Leadership,Analytical thinking,Ownership,Team collaboration, EventManagement,Time Management,Finance and Budget analysis,Adaptability,Networking,Organizing

Education

- **Bachelor Of Technology(B.Tech ECE)**   **2022-2026**   **CGPA:** 8.4
  Rajiv Gandhi University Of Knowledge Technologies, ONGOLE
- **Pre University Course-MPC(PUC)**   **2020-2022**   **CGPA:** 9.0
  Rajiv Gandhi University Of Knowledge Technologies, ONGOLE

Experience

Machine Learning Intern :InternshipStudio(Remote)   Aug 2024 – Jan 2025
Project: Student Performance Prediction using Machine Learning

- Developed a predictive model to analyze student performance using regression and classification algorithms in python

Projects

YOLO Object Detection |GitHub|

Real time Object detection using the YOLOv4 (You Only Look Once) algorithm, implemented with OpenCV and Python. YOLOv4 is an improved version of YOLOv3 that provides faster and more accurate object detection in real-time.

Brain tumor classification using deep learning(CNN) |GitHub|

The CNN model achieves high accuracy in distinguishing between tumor types.Visualization of accuracy and loss over epochs indicates effective learning.The model generalizes well on validation data, showing potential for real-world application.Achieved 98 percent accuracy.

Chat bot using ML in Medical Purpose(Heart Disease) |GitHub|

Doctor Bot is a simple conversational chatbot that answers user queries about heart disease by processing medical article content. It uses Natural Language Processing (NLP) techniques to analyze questions and respond with relevant information.

Movie Recommendation system using ML |GitHub|

This project is a content-based Movie Recommendation System built using Python. It suggests similar movies based on genres, overview, crew, director, and keywords using NLP techniques,cosine similarity.

Spam emails sms classifier |GitHub|

A machine learning-based web application that classifies text messages and emails as Spam or Ham (Not Spam) using Natural Language Processing (NLP) techniques and a pre-trained classifier. Built with Python and locally deployed using Streamlit.Achieved accuracy around 98 percent.

Resume ATS tracking system |GitHub|

A machine learning-based HR related system.used for resume ATS tracking,resume parsing.

Honours and Certifications

- edX Verified Certificate IBM PY0101EN|Certificate|
- Deeplearning for Developers[Certificate]
- Technova 2nd Prize Certificate for Security survellience using ML project IIIT ONGOLE[Certificate]
- Finance and budgeting Committee Student Coordinator [Certificate]
- edX Verified Certificate Soft Skills|Certificate|
- OpenCV 4 Certifications from Skillsoft and Simplilearn|Certificate|
    * Intro, Manipulating Images, Advanced Images Operations and Using Raspberry Pi and OpenCV

Volunteer Experience

Student Coordinator: Department of Placements and Internships Standing Committee

Finance and Budgeting Committe Coordinator: Managed and organized institute budget matters in Ornate'25 IIIT ONG.

Technova Student Coordinater Incharge: Organized technical events in department