BALA SUJITH POLISHETTY

+91 9346694812 sujithpolishetty@gmail.com LinkedIn

OBJECTIVE

I am a dedicated and forward-thinking AI/ML student with a robust foundation in computer science and a passion for creating intelligent, data-driven applications. My experience lies in developing end-to-end projects, from conceptualization to deployment. I am driven by the challenge of solving complex problems and am constantly exploring new technologies to enhance my skill set. I believe in the power of collaboration and am eager to contribute my skills to a team that is pushing the boundaries of what's possible with AI.

B.Tech in Artificial Intelligence and Machine Learning
Siddhartha Institute of Technology and Science, Hyderabad 2022 - Pursuing
CGPA : 7.5
Intermediate, SR Junior College, Boduppal, Hyderabad 2020 - 2022
Percentage :92.8%
SSC, Sacred Heart High School, Mothkur, Yadadri-Bhuvanagiri 2020
GPA : 9.8

SKILLS

Programming Languages	C, Java, Python, SQL
Web Technologies	HTML, CSS, JavaScript
CS Fundamentals	DBMS, DSA, NLP, ML
Soft Skills	Analytical Thinking, Team Work, Communication, Problem Solving
Certifications	Artificial Intelligence Fundamentals (IBM) Python

PROJECT

Plant Disease Detection using Deep Learning
Tech Stack: Python, Flask, TensorFlow/Keras, OpenCV

- Developed a deep learning model using TensorFlow/Keras to classify plant leaves into healthy or diseased categories with high accuracy.
- Utilized Python tools like OpenCV, NumPy, and Albumentations for image resizing, noise removal, and augmentation (rotation, flipping, brightness adjustment) to improve model generalization.
- Engineered context-aware chat continuity using SQLite for session management.
- Designed a modular, offline-capable architecture for enhanced data privacy and scalability.

AI Based Word AutoComplete using NLP
Tech Stack: Python, Flask, TensorFlow/Keras, NLTK, Seaborn, regex

- Implemented deep learning techniques (LSTM based models using TensorFlow) to suggest next words in real-time.
- Applied NLP tools (spaCy, NLTK, regex) for tokenization, lemmatization, and cleaning to enhance input data quality.
- Measured model efficiency using metrics like perplexity, accuracy, and BLEU score, ensuring reliable word suggestions.
- Implemented regex for efficient text cleaning and normalization, improving model robustness.
- Built a Flask interface allowing users to type text and receive intelligent autocomplete suggestions dynamically.