Sneha Sarkar

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EDUCATION

VIT Bhopal University   June 2022 pursuing
BTech in CSE(AIML)   **8.78 CGPA**

SKILLS

Expertise: Machine Learning, Deep Learning, NLP, Computer Vision, Data Analysis & Visualization, Predictive Modeling, Feature Engineering, Model Evaluation, Data Structures & Algorithms, OOP, AWS fundamentals.

Languages: Python, C++, Java, SQL, HTML, CSS.

Frameworks: NumPy, pandas, scikit-learn, TensorFlow, Keras, PyTorch, OpenCV, NLTK, spaCy, Gensim, Matplotlib, Seaborn, Plotly, Flask.

Tools: Git, GitHub, AWS, Flask, Excel, Jupyter, VS Code, Google Colab, PyCharm, TinkerCad.

Professional: Problem Solving, Analytical Thinking, Communication, Teamwork, Agile Learning, Time Management, Adaptability, Critical Thinking, Technical Documentation.

PROJECTS

WhatsApp Chat Analyzer

Python, pandas, NumPy, matplotlib, seaborn, NLP, Data Analysis (GitHub)

- Developed a Python-based WhatsApp chat analyzer to preprocess, analyze, and visualize communication patterns from exported chat data.
- Generated insights on user activity, message trends, and word usage using data analysis and visualization techniques.

Resume Scanner

Python, NLP, NLTK, spaCy, scikit-learn, Flask, pandas (GitHub)

- Implemented text parsing, keyword extraction, and similarity scoring to support efficient candidate screening and skill matching.
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Rainfall Prediction System

Python, NumPy, pandas, scikit-learn, Matplotlib, Seaborn, Machine Learning (GitHub)

- Developed machine learning rainfall prediction system using regression algorithms (Linear Regression, Decision Trees, Random Forest), performing comprehensive EDA, feature engineering, and data preprocessing on historical weather datasets
- Evaluated models using R^2 score, RMSE, and MAE metrics; created correlation heatmaps and visualizations with Matplotlib/Seaborn to identify weather patterns and optimize prediction accuracy

AI-Powered Conversational Chatbot

Python, NLTK, TensorFlow, Keras, Flask, NLP, Deep Learning (GitHub)

- Developed conversational AI chatbot using NLTK, TensorFlow, and Keras with LSTM layers for intent classification and automated response generation
- Deployed Flask-based web application with real-time user interaction, confidence thresholding, and high-accuracy intent recognition across multiple categories

EXPERIENCE

TEACHNOOK ROBOTICS   Feb 2023 – May 2023
Robotics Intern   *Remote*

- Designed and simulated robotic components (hand, leg) using TinkerCad and worked with electronic sensors and motors.
- Participated in circuit design sessions and learned applications of electrical devices in robotics automation.

CERTIFICATIONS & ACHIEVEMENTS

- Solved 500+ coding problems across multiple platforms (Link)
- AWS Certified Cloud Practitioner (Link)
- Privacy and Security in Online Social Media (NPTEL) (Link)
- GEN AI Using IBM Watsonx (Link)