SHABANA BEGUM

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Hyderabad, TG

Skills

- Python (Pandas, NumPy, SciPy, Matplotlib) SQL, Azure, Data Engineering, AI, Gen AI
- Data Mining, Data Cleaning, Text Mining
- Data Manipulation, Data Preprocessing, DSA, EDA
- *Regression, Classification, Clustering Algorithms*
- *ML, DL, NLP, ANN, CNN, RNN, LLMs, Media Pipe*
- *Scikit-learn, TensorFlow, Py Torch, Kera's, OpenCV*
- Microsoft Power Bi, Git, GitHub

Projects

MRI-BASED BRAIN TUMOR DETECTION

GitRepo

- Developing a system to effectively and accurately cluster medical articles based on quality and relevance
- Enhanced image variability and reduced model overfitting through advanced data augmentation techniques.
- Utilized OpenCV, TensorFlow/Keras, and Scikit-learn to build and train the model, improving diagnostic accuracy.
- Developed a multi-class brain tumor classification model using CNNs, achieving accurate classification across 4 categories.

CHAT WITH MULTIPLE DOCUMENTS

GitRepo

- Develop a Streamlit web application for querying information from PDF documents using NLP.
- Developed a Streamlit app using the Gemini model to query PDF content with NLP techniques, processing over 1,000 documents with high efficiency.
- Achieved 95% accuracy in PDF text extraction and querying by integrating the Gemini model for NLP
- Delivered a user-friendly interface, improving response time by 40% and enabling seamless interactions.

BANKING AND FINANCE DOMAIN (END-TO-END MACHINE LEARNING)

GitRepo

- Developed an end-to-end machine learning model to predict loan eligibility for Dream Housing Finance.
- Preprocessed and cleaned raw data, handled missing values, outliers, and encoded categorical variables.
- Implemented **Logistic Regression**, **Random Forest**, and **Support Vector Machine (SVM)** algorithms, achieving an **accuracy of 85%-90%** for loan eligibility predictions.
- Optimized model hyperparameters and evaluated performance Conducted **real-time prediction simulations** and prepared scripts for deployment.

Experience

Data Science Intern October 2024 – November 2024

- Analyzed a restaurant dataset using Python, Matplotlib, and Seaborn to uncover trends and patterns.
- Conducted multi-level analysis, including Level
- 1: Cuisines, cities, price ranges, and delivery insights.
- 2: Ratings, cuisine combinations, and geographic trends.
- 3: Reviews, votes, and the relationship between price, delivery, and table booking

Certifications

FULL STACK DATA SCIENCE & AI August 2024 – December 2024
DATA SCIENCE INTERNSHIP October 2024 – November 2024
PYTHON PROGRAMMING March 2024 – May 2024

Education

BACHELOR OF COMPUTER APPLICATION – Osmania University – Hyderabad 2021-2024
Majors: Computer Applications, Data Science, Information Technology Management, Cloud Computing