TUSHAR SURESH DESHMUKH

Data Scientist | AI/ML Engineer

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Dedicated data science professional with expertise in machine learning and deep learning, driven to solve complex problems and innovate. Seeking a dynamic role to contribute advance statistical analysis and cutting-edge techniques for extracting meaningful patterns from data. Committed to staying current with tech trends, aiming to optimize business processes through enhanced predictive models. Eager to expand skills and contribute significantly to impactful projects, benefiting organizations and stakeholders.

💼 Work Experience

CodeSpyder Technologies Pvt. Ltd., Pune   **June 2023- November 2023**

Data Science Intern,

- Had hands-on experience on Python
- Used python to analyze large data sets.
- Created Machine Learning, Deep Learning and Natural Language Processing Models using python.
- Created Web Application using python, MySQL, HTML, Flask
- Used knowledge of Exploratory analysis to extract insights and uncover important groups, trends and relationships in data.

🎓 Projects

1. Project Title - **Customized Question answering (chatbot) using large language model (LLM) on database given in pdf files-**

Description –

- Used **PyPDF2** to extract text from uploaded PDF.
- Employed **LangChain** and **OpenAI** for Natural language processing**(NLP)**
- Implemented a question-answering system with LangChain.
- Integrated **FAISS** for efficient document storage and retrieval.
- Utilized **Python** for backend development, incorporating **Flask** for the web interface.

2. Project Title - **Extraction Payment Term from bank loan documents Using Named entity recognition (NER)**

Description-

- Developed an **NER** model with **SpaCy** in **NLP** for extracting payment terms
- Conducted efficient **data preprocessing** on a **JSON** dataset.
- Utilized **Python** for backend development, incorporating **Flask** for the UI.
- Implemented visualization of NER results using **SpaCy's displacy** module.

3. Project Title – **Agricultural Prediction System**

Description –

- **Identification** and **integration** of diverse data sources for agricultural insights, conducting **Exploratory Data Analysis** (**EDA**) for informed decision-making.
- **Data preprocessing techniques**, including **Missing Value Treatment**, **Outlier Treatment**, **Label Encoding**, and **Skewness Treatment**, to enhance data quality.
- Conducted a Comparative Study of various **Classification Models**, selecting the optimal model based on rigorous **evaluation metrics**.
- Pioneered a **Convolutional Neural Network** (**CNN**) based image recognition system for crop disease identification, achieving an 85% accuracy rate in disease diagnosis.

✏ Technical Skills

- **Python :-** Numpy, Pandas, Matplotlib, Seaborn, Scikit-Learn, Tensorflow, Keras.
- **Machine Learning :-** Linear Regression Logistic Rgression, K-Nearest neighbors (KNN), Support vector machines (SVM), Decision Tree (DT), Random Forest, XgBoost, K-Means Clustering
- **Deep Learning :- A**NN, CNN, LSTM, Computer vision(CV)
- **Natural Language Processing (NLP)**
- **Flask**
- **HTML5,   CSS**
- **SQL**

📦 Education

- **Masters Of Computer Application (MCA)**
  2021-2023
  Sinhgad Institute of Management, Pune university
  CGPA - 8.12
  Percentage – 75.29 %

- **Bachelor of Computer Application (Science)**
  2018-2021
  MES Abasaheb Garware College, Pune University
  CGPA- 8.5
  Percentage - 73.49 %

- **HSC (Science)**
  Feb-2018
  MES Abasaheb Garware College
  Percentage - 65.38 %