Vaibhavi Powar
Data Scientist

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WORK EXPERIENCE

Python Developer Intern | June 2023 - August 2023
- Developed a **Gym Management System** using **Python and SQL**, improving efficiency in user authentication and subscription handling.
- Optimized **SQL queries**, enhancing data retrieval **performance by 30%.**
- Integrated role-based access control, strengthening system security.
- Built an interactive front-end using HTML & CSS for improved user experience.
- **Technologies :**Python, SQL, HTML, CSS.

PROJECTS

AI-Powered Code Assistant
- Developed an **AI-driven coding assistant** using **prompt engineering** to enhance developer productivity.
- **Automated language detection** for seamless multi-language support.
- Implemented **AI-powered bug detection** & code optimization, **reducing debugging time**.
- Built intelligent **code review capabilities**, ensuring best practices in software development.
- **Technologies:** Python, Gemini API, NLP, Google Generative AI.

Research Paper Recommendation & Question Answering System
- Created an **AI-powered research assistant** leveraging **DistilBERT** for document retrieval and **BERTbased SQuAD2.0** for question answering.
- Achieved high-accuracy recommendations using **BERT embeddings & cosine similarity**.
- Built an interactive dashboard with Streamlit, improving research accessibility.
- **Technologies:** Python, Hugging Face, PyTorch, Scikit-learn, Pandas, Streamlit.

Healthcare Chatbot
- Designed an **AI-powered healthcare chatbot** to provide **real-time medical assistance**.
- Integrated **natural language processing (NLP)** for accurate responses to **health-related queries**.
- Reduced patient dependency on healthcare professionals through **automated, AI-driven insights**.
- **Technologies:** Python, Google Generative AI, NLP, Prompt Engineering.

TECHNICAL SKILLS

Programming Languages: Python, SQL
Algorithms: Linear Registration, Logistic, Regression, Clustering, NPL, Decision Tree, Random Forest, KNN.
ML/DL Libraries: NumPy,Pandas,Matplotlib,Scikit-learn,TensorFlow,Keras,PyTorch,Hugging Face etc.
Statistical Analysis: Probability, Hypothesis Testing, Descriptive & Inferential Statistics
Natural Language Processing: Word2Vec, TF-IDF ,RNN ,LSTM, Transformers, BERT, GPT, Prompt Engineering, GenAI.
Web Technologies: HTML,CSS.

EDUCATION

B.Tech in Data Science   05/2024
Dr. D.Y. Patil Pratishthan's College of Engineering, Kolhapur
CGPA : 8.47
Diploma in Information Technology   06/2021
Government Ploytechnic , Kolhapur
84.38%

CERTIFICATES

Generative AI: Prompt Engineering Basics (**Coursera**)
ChatGPT Prompt Engineer Developer (**DeepLearning.AI**)
The 10-Days Python Bootcamp for Engineers and Scientist (**Udemy**)