Sidra Hamid

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EXPERIENCE

Evoastra Ventures   **07/2024 - 09/2024**
Data Science Intern   Remote

- Developed web scraping scripts using Selenium to gather and analyze data from various online sources, enhancing the dataset for more comprehensive analysis and insights.
- Analyzed large datasets using Python libraries like Pandas and Matplotlib, providing actionable insights through comprehensive reports and visualizations.
- Built and fine-tuned predictive models with Scikit-learn, achieving high accuracy in forecasting key business metrics and improving decision-making processes.

Fusion Flare Tech   **07/2024 - 09/2024**
Machine Learning Intern

- Created and fine-tuned machine learning models to predict disease outcomes (e.g., COVID-19, thyroid conditions) based on symptom data.
- Deployed a chatbot model in a Flutter-based app, utilizing Streamlit and Hugging Face API to answer queries on COVID-19 and thyroid disease, with automated PDF content integration.
- Conducted research to improve understanding of AI algorithms and model optimization techniques.

EDUCATION

National University of Computer and Emerging Sciences   **2022 - 2026**
Bachelors (Artificial Intelligence)   CGPA: 3.23

Beaconhouse School System   **2018 - 2022**
O & A Levels

PROJECTS

Exams Schedule Generator using Genetic Algorithm

- Implemented fitness functions to assess schedule quality based on several hard and soft constraints.
- Utilized crossover and mutation techniques for genetic variation to explore the solution space effectively.

Age Prediction Using Regression Model

- Developed a regression model to predict speaker ages using features of audio samples.
- Key feature extraction of audio datasets using libraries such as librosa and parselmouth, along with data preprocessing techniques to clean data.

Web Scraping and Interactive Dashboard

- Developed a Python script using Selenium for automated web scraping and documentation of data from sites such as Daraz, rozee.pk and indeed.com.
- Used pandas to effectively filter and extract information from data.
- Integrated dashboard using PyCharm / Flask to display key data insights.
- NLP and NLTK integration to make a simple chatbot to attend to user queries regarding data.

Event Management System

- Utilized Node.js for server-side logic and MySQL for database management to create a robust platform for event organization.
- Implemented features allowing users to add and manage menu items, performances, tasks, budgets, and announcements, providing a comprehensive event planning toolkit.
- Integrated a voting system for users to engage with and prioritize event elements, ensuring dynamic and participatory event planning.

Story-to-Audio Generator

- Text-to-Speech system with sentence-level mood detection using rule-based NLP to generate emotionally expressive audio.
- Tuned TTS parameters (rate, pitch, volume) based on detected mood and combined sentence-wise audio using pydub.
- Interactive Gradio frontend and a gRPC backend server for modular deployment and real-time user interaction.

SKILLS

Python, C++, MySQL, Power BI, Flask, NLTK, NLP, Image Processing, Audio Processing, HTML, CSS, Webscraping, Selenium, WebDev, Data Analysis, Node.js