Suraj Vishwakarma

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Skills

Languages: C/C++, Python, JavaScript, TypeScript

Technologies & Tools: Django , Reactjs , Nextjs , streamlit , pandas , Langchain ,Matplotlib , NLTK ,Transformer , TensorFlow ,NLP ,AWS ,Docker ,CI/CD, Git,

Soft Skills: Teamwork, Communication, Problem-solving, Time Management

Education

Lovely Professional University   Aug 2023 - Present
B.Tech in Computer Science and Engineering   *2nd Year*

Relevant Coursework: Object Oriented Programming, Databases, Discrete Maths, Data Structures and Algorithms, Operating Systems, Computer Networks, Machine Learning, Data Mining, Advance Data Structures and Algorithms, Information Retrieval, Image Processing

Project Work

Coupon Code Marketplace (2024)

Developed a comprehensive full-stack responsive web application for managing and redeeming discount coupons using Next.js.

- Designed and implemented the entire application with Next.js, utilizing server-side rendering and static site generation for a seamless user experience.
- Built robust APIs within Next.js for handling user and coupon data, integrating MongoDB with Mongoose for efficient data storage and management.
- Implemented user authentication and authorization using JWT within Next.js API routes, and set up mail services for user notifications.
- **Tech Stack:** Next.js Frontend ,Backend , MongoDB , Mongoose , JWT, Resend, Web-Socket ,CSS Modules, Tailwind

Cryptocurrencies Price Tracker (2024)

Developed a python application to track and visualize cryptocurrency prices.

- Created an interactive dashboard using Streamlit to monitor real-time prices of various cryptocurrencies.
- Implemented features to track price changes with a user-defined time frame, displaying data with timestamps.
- Displayed latest bid and ask prices in a dynamic DataFrame.
- Retrieved and plotted historical price data using Matplotlib for line charts and Plotly for candlestick charts.
- **Tech Stack:** Python, Streamlit, Pandas, Matplotlib, Plotly , Gemini API ,Cryptocompare API

Document Clustering (2024)

Developed a machine learning model to automatically group similar documents based on their content using unsupervised learning techniques.

- **Data Processing** Collected and preprocessed text data with tokenization, stopword removal, and stemming/lemmatization.
- Transformed text data into numerical features using TF-IDF vectorization.
- **Model Development** Applied K-Means and hierarchical clustering algorithms for document grouping.
- Evaluated model performance with Silhouette Score and Davies-Bouldin Index.
- **Visualization** Visualized clusters using PCA and t-SNE for dimensionality reduction.
- Created interactive visualizations with Plotly to explore document clusters.
- **Tech Stack** Python, Scikit-learn, NLTK, Pandas, Matplotlib, Plotly

Awards and Certificates

- Generative AI Course With Langchain and Huggingface on udemy
- Machine Learning and Deep Learning Specialization on udemy