Kushagra Jaiswal

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Summary

Detail-oriented and analytical B.Tech graduate in Computer Science from YMCA University with practical experience in data science and visualization through freelance projects. Skilled in using advanced analytics tools to derive insights and streamline processes for data-driven decisions. Strong communicator adept at presenting quantitative insights to non-technical audiences.

Skills

- **Data Analytics & Visualization**: Advanced Excel (macros, Power Query), Power BI, Tableau for dashboard creation, and reporting. Proficient in using Python for data preprocessing, feature engineering, and exploratory data analysis.
- **Machine Learning**: Logistic Regression, Decision Trees, Random Forest, Clustering, and ensemble methods. Experience in predictive modeling with applications in anomaly detection and ranking.
- **Programming Languages**: Python, SQL, JavaScript
- **Tools & Frameworks**: Jupyter Notebooks, Scikit-Learn, Pandas, NumPy, Flask, and Recharts
- **Automation**: Skilled in automating data updates and handling API interactions using RESTful APIs.
- **Client Interaction**: Skilled at presenting data insights in a clear and understandable way, with the ability to adapt complex technical solutions to be accessible for non-technical audiences.

Projects

Data Visualization Dashboard Project (Freelance)
Developed a comprehensive dashboard using Power BI and React

- Created dynamic dashboards for data exploration and visualization, including bar charts, line graphs, scatter plots, and pie charts.
- Integrated real-time data updates and enhanced user experience with responsive and interactive features.

- Project Link: [**GitHub:** https://github.com/Nerd-coderZero/Project_DataViz]

TRP Priority Calculation for Cricket Matches (Freelance)
Built an algorithm to rank cricket matches based on viewership potential

- Assigned weights to factors like rivalry, series importance, and match timing to compute a TRP score.
- Used Python and Pandas for data processing and visualization, providing insights into viewership trends.

- **Project Link:** [GitHub Repository](#)

Cryptocurrency Data Updater (Freelance)[Due to Inactivity of my cloud service account the code does not run, Soon plan to change credentials to a free tier one]
Automated cryptocurrency data fetching and Google Sheets integration for real-time updates

- Developed a Python script to fetch cryptocurrency prices from multiple exchanges, including Wazirx, CoinDCX, Coinswitch, and Mudrex.
- Automated data extraction using APIs and scheduled updates in Google Sheets via `gspread` and OAuth2 authentication.
- Implemented rate limiting, exponential backoff, and error handling for reliable data retrieval under API quotas.
- Enabled real-time monitoring by updating exchange rates in INR, displayed in an accessible Google Sheets dashboard.

- Project Link : [CODE](#)

Text Analysis Assignment: {Completed as part of data science training}

  Technologies: Python, Pandas, NLTK, BeautifulSoup, Requests
  Key Responsibilities:
  - Developed a Python script for extracting and analyzing text from online articles.
  - Implemented web scraping techniques using BeautifulSoup and HTTP requests with the Requests library.
  - Analyzed text for sentiment using custom stop words and sentiment word lists.
  - Saved processed text and analysis results into text files and Excel spreadsheets.

  Project Link: [GoogleDrive: Text-Analysis-Assignment](#)

Credit Card Fraud Detection Project{Project Demo link is live at my portfolio website}
Achieved 85%+ accuracy in identifying fraudulent transactions using predictive models

- Conducted EDA, feature engineering, and outlier analysis, enhancing model precision for real-time fraud detection.
- Employed SMOTE for data balancing and grid search for model optimization, deploying results with Flask and Docker.

- **Project Demo Deployment** : [Credit Card Fraud Detection Model Demo · Streamlit](#)

- Project Code Link: Nerd-coderZero/Credit-Card-Fraud-Detection

Person Detection and Tracking System for Autism Spectrum Disorder Therapies
Developed a real-time tracking model with TensorFlow and MediaPipe

- Implemented tracking and classification techniques using custom models to identify and label individuals as "Child" or "Adult."
- Processed video data and deployed a live system with OpenCV for behavioral analysis and tracking.

- **Project Link**: Nerd-coderZero/Child_Adult_Detection (github.com)

Retrieval-Augmented Generation (RAG) Model for Question Answering
Created a Q&A model leveraging vector embeddings with Pinecone integration

- Implemented advanced NLP techniques for query processing, enhancing response accuracy.
- Integrated with Wikipedia for dynamic data retrieval, enabling context-aware question answering.

- **Project Demo Deployment** : Document QA System · Streamlit

- **Project Code Link** : Nerd-coderZero/RAG_QA_BOT (github.com)

Education

Bachelor of Technology in Computer Science and Engineering
YMCA University, Faridabad, India

Data Science Bootcamp
upGrad Knowledgehut, Completed: December 17, 2023

Certifications

- **Data Science Bootcamp** (upGrad), December 2023
- **Web Development** (Bolt IOT), October 2021

Additional Information

- **Problem-Solving & Communication**: Experienced in explaining technical concepts to non-technical audiences, ensuring clear and actionable insights for stakeholders.

- **Freelance Project Experience**: Skilled in managing and delivering client-facing data projects that involve data cleaning, visualization, and reporting for actionable insights.
- **Adaptable & Self-Learning**: Strong ability to adapt to new technologies, stay updated with industry trends, and continuously enhance technical skills.