SAURABH SAROJ

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Profile:

Goal-oriented and detail-oriented data analyst fresher with a solid foundation in data analysis and visualization. Seeking a challenging position as a Data Analyst to apply my skills in data manipulation, statistical analysis, and data visualization techniques. Dedicated to extracting meaningful insights from diverse datasets and assisting in data-driven decision-making processes. Proficient in Python programming language with a strong ability to analyze complex data sets using SQL and Excel. Committed to utilizing my analytical mindset and problem-solving skills to contribute to the success of the organization. Eager to learn and grow in a collaborative and data-driven environment.

Experience:

Data Science Intern at **Onlei Technologies, Noida, India** from 12th September 2022 to 10th March 2023.

Total Duration: 6 months

• Gained comprehensive knowledge and hands-on experience in data science through a rigorous 6-month training program.

• Developed proficiency in Python programming language, utilizing it for data manipulation, analysis, and visualization.

• Acquired in-depth understanding of machine learning algorithms and their implementation for predictive modeling and pattern recognition.

• Explored the principles and techniques of deep learning, leveraging neural networks for advanced data analysis tasks.

• Learned data analysis methodologies, including exploratory data analysis, statistical modeling, and hypothesis testing.

• Developed skills in data visualization, effectively conveying complex data insights through charts, graphs, and visual representations.

• Engaged in practical projects, applying acquired knowledge to solve real-world data science problems.

Education:

Bachelor of Technology(Electrical Engineering)

  - Dr. A.P.J. Abdul Kalam Technical University Uttar Pradesh, India - 2016

Higher Secondary Certificate

  - Council of Indian School Certificate Examination, Delhi, India – 2012

Secondary School Certificate

  - Council of Indian School Certificate Examination, Delhi, India – 2010

Certifications:

Data Science and Machine Learning with Python

  Onlei Technologies (March 2023)

  Certificate Id : ONLEI20234566

Python Project for Data Science

  Coursera in collaboration with IBM (June 2023)

  Credential URL: https://www.coursera.org/account/accomplishments/certificate/JRGD8HKKNKCG

Technical Skills:

- **Programming Languages:** Python
- **Machine Learning:** Supervised Learning, Unsupervised Learning, Ensemble Methods, Feature Engineering, Model Evaluation
- **Data Analysis and Visualization:** Pandas, NumPy, Matplotlib, Seaborn, Power BI
- **Data Manipulation:** SQL, Data Cleaning, Data Preprocessing, Data Wrangling
- **Data Mining and Exploration:** Exploratory Data Analysis (EDA), Dimensionality Reduction, Clustering Techniques
- **Data Visualization:** Data Dashboards, Data Storytelling, Interactive Visualization
- **Web Scraping:** BeautifulSoup
- **Database:** MySql
- **Communication and Presentation**

Projects:

1. **Historical Stock Price and Revenue Analysis:** Coursera – June 2023
   IBM cloud link: https://eu-de.dataplatform.cloud.ibm.com/analytics/notebooks/v2/cadd4630-ac7e-433a-a928-add9858720fb/view?access_token=cb5f667162127cb637ea7f591aef3593820e47ebb1642afbce175891bce54de8
   - Utilized web scraping tool Beautiful Soup to extract historical price data of stocks from relevant websites.
   - Conducted data cleaning and performed feature engineering techniques to ensure data accuracy and relevance for analysis.
   - Leveraged IBM Cloud server and Watson Studio to develop and execute the project.
   - Created a dynamic dashboard that enabled users to interact with the data, specifically implementing a datetime slider for customized historical price and revenue analysis.
   - Implemented data visualization techniques to present the historical price and revenue analysis effectively, using appropriate charts and graphs.
   - Demonstrated strong problem-solving skills by overcoming challenges related to data acquisition, cleaning, and visualization.
   - Conducted thorough analysis and interpretation of the historical price and revenue data, extracting meaningful insights to aid in decision-making processes.
   - Documented the project process, including the techniques used, challenges faced, and solutions implemented, ensuring effective knowledge transfer.
   - Collaborated effectively with team members, seeking feedback and incorporating suggestions to enhance the project's quality and functionality.

2. **Gender Detection System:** Onlei Technologies – Feb 2023 – Mar 2023
   Github link: https://github.com/sarojsaurabh/Gender-Recognition-System.git
   - Developed a dynamic web application using Streamlit to implement a gender recognition system capable of detecting the gender of a person from images, videos, or live camera feeds.
   - Utilized Python libraries including OpenCV, numpy, TensorFlow-keras.models, and keras.utils for efficient data processing and deep learning model implementation.
   - Worked with a high-quality face dataset to train and fine-tune a Convolutional Neural Network (CNN) model specifically designed for gender recognition.
   - Leveraged OpenCV to extract facial features from input images, videos, or live camera feeds, ensuring accurate face detection.
   - Developed and optimized the CNN model using TensorFlow and keras.utils, achieving high accuracy in gender classification.
   - Implemented real-time video processing to enable live gender recognition from camera feeds in the web application.
   - Created an intuitive and user-friendly user interface (UI) within the web application to display the gender recognition results, providing clear indications of the person's gender.

3. **Employee Management System:** Onlei Technologies – Jan 2023
   Github link: https://github.com/sarojsaurabh/Employee-Management-System.git
   - Developed a comprehensive web application using Streamlit to create an efficient employee management system.
   - Implemented functionalities to manage and store all employee records, including task assignments and project management.
   - Integrated an internal messaging system within the application to facilitate effective communication among employees and management.
   - Utilized an SQL database to securely store and manage all employee and management records.
   - Employed pandas Data Frame to read and manipulate records from the SQL database, ensuring seamless data handling.
   - Implemented separate login functionalities for employees and management, ensuring appropriate access levels and data privacy.
   - Developed a task/project tracker feature to monitor and track employees' progress on assigned projects.

4. **Sentiment Analysis:** Onlei Technologies – Dec 2023
   Github link: https://github.com/sarojsaurabh/Sentiment-Analysis.git
   - Developed a web application for sentiment analysis, capable of automatically determining the sentiment (positive, negative, or neutral) of feedbacks or reviews from any source.
   - Utilized SQL to store and manage the feedback data, ensuring efficient data retrieval and analysis.
   - Leveraged Python libraries such as pandas, plotly.express, and Vader Sentiment for data manipulation, visualization, and sentiment analysis.
   - Conducted data preprocessing techniques to clean and prepare the feedback data for sentiment analysis.
   - Implemented Vader Sentiment, a pre-trained model specifically designed for sentiment analysis, to derive sentiment scores from the feedbacks.
   - Developed an intuitive user interface using Streamlit, allowing users to input and analyze feedbacks easily.
   - Visualized the sentiment analysis results using plotly.express, providing interactive and visually appealing representations of the feedback sentiments.

5. **Face Mask Detection System:** Onlei Technologies – Nov 2023

Github link: https://github.com/sarojsaurabh/facemaskdetection.git

- Developed a dynamic web application using Streamlit, integrating OpenCV, TensorFlow, and Convolutional Neural Network (CNN) for accurate and real-time face mask detection.
- Utilized a high-quality face dataset to train and fine-tune the model, enabling it to accurately detect faces wearing masks in photos, videos, and live feeds.
- Implemented computer vision techniques using OpenCV to preprocess and analyze input images, extracting relevant features for face mask detection.
- Developed and optimized a CNN model using TensorFlow, achieving high accuracy and robustness in detecting face masks.
- Integrated the model with the web application to enable real-time face mask detection through a camera feed.
- Created an intuitive and user-friendly user interface (UI) within the web application to display the results of the face mask detection, providing clear indications of mask-wearing compliance.

6. **Library Management System:** Onlei Technologies – Oct 2023
   Github link: https://github.com/sarojsaurabh/Library-Management-System.git

- Developed a web application using Streamlit to create a user-friendly digital library environment for a school.
- Implemented an SQL database to store and manage all records of students issuing books, providing efficient control for librarians.
- Utilized pandas DataFrame to read and manipulate records from the SQL database, ensuring seamless data handling.
- Designed and implemented separate login functionalities for both students and librarians, ensuring secure access to the system.
- Integrated a feature for online reading, allowing users to access digital copies of books directly through the application.

Achievements & Awards:

- Worked as Executive head of Cultural Organizing Committee 2015-16.
- Qualified Gate 2016

Activities:

- Won 1st Prize in Techzion Competition - 2013
- Participated in 'Utsav' singing and instrument playing competition and backed 2nd Prize - 2014
- Organized a fresher party 'Swastika' - 2015
- Organized annual fest 'Reverb' and took active part in college band – 2016

Personal Details:

Gender: Male
Date of Birth: 10th Nov, 1995
Language known: English, Hindi
Marital Status: Single
Hobbies: Singing, playing guitar, playing chess

Declaration:

I hereby declare that all the details provided above are true to the best of my knowledge.

Place: Lucknow   (SAURABH SAROJ)