

ZEHRA BATOOL

UNGRADUATE SOFTWARE ENGINEER | ASPIRING DATA ANALYST

CONTACT



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Karachi, Pakistan

SKILLS

Python (Pandas, Numpy, Matplotlib)

SQL

Power BI

Exploratory Data Analysis

Web Scrapping (BeautifulSoup, Requests)

API Automation

EDUCATION

B.E. in Software Engineering

NED University of engineering and technology

2022- present (expected graduation 2026)

CGPA : 3.74

CERTIFICATIONS

Python for Data Analysis

Great Learning

Introduction to Databases

Meta (Coursera)

Data Analyst bootcamp

Alex the analyst

PROJECTS

Emotion Detector

Python

- Awarded Second Prize in Inter-Department Project Competition within the Data Science domain
- Developed an application showcasing object-oriented programming principles, integrating OpenCV, DeepFace, ctypes, Tkinter, and random libraries.
- Implemented real-time mood detection using webcam feeds, utilizing OpenCV for image processing and DeepFace for facial recognition.
- Offered personalized desktop customization based on detected moods, dynamically adjusting frames, wallpapers, and displaying mood-specific motivational quotes.
- Created a user-friendly interface with Tkinter, enabling seamless interaction with the application.
- Employed random libraries to generate dynamic content, such as motivational quotes tailored to the user's mood.

Corona Virus Data set Exploration

SQL

- Analyzed corona virus data set from kaggle
- Conducted comprehensive exploration and analysis of COVID-19 data using advanced SQL techniques, including Joins, CTEs, Temp Tables, and Window Functions.
- Calculated key metrics such as mortality rate, infection rate, and death count per population to assess the severity of the pandemic across different regions.
- Identified countries and continents with the highest infection rates and death counts per population, providing valuable insights into the global impact of COVID-19.
- Prepared views for easy data visualization, facilitating further analysis and presentation of insights to stakeholders.

Movie Data set Correlation

Python

- Utilized Python libraries Pandas, NumPy, Seaborn, and Matplotlib for data analysis and visualization.
- Conducted correlation analysis on a movie dataset using Python to explore relationships between various features.
- Cleaned and preprocessed the data, handling missing values and converting categorical variables to numeric for analysis.
- Visualized correlations between numeric features using a heatmap and identified strong correlations between pairs of variables.
- Analyzed pairs with high correlation coefficients (> 0.5) to understand the strongest relationships in the dataset.
- Provided insights into factors influencing gross profit, such as budget and viewer ratings, while noting the limited impact of certain variables like company.

Crypto API Automation

Python

- Automated retrieval of cryptocurrency data from the CoinMarketCap API using Python, fetching real-time information on prices, market capitalization, and percentage changes.
- Transformed JSON data into Pandas Data frame and stored it in a CSV file for future analysis and reference.
- Conducted data analysis by calculating mean percentage changes in cryptocurrency prices over various time intervals and visualized trends using Seaborn.
- Utilized Seaborn for visualization, plotting price increases of each cryptocurrency and comparing Bitcoin's price changes over time to the program's last execution.