Muhammad Jafar

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EDUCATION

University of Central Punjab Lahore, From
Bachelors in Computer Science (BSCS) 2020 - 2024

Relevant Coursework:

- C++ (DSA), Artificial Intelligence, Data Science Statistics, Big Data Analytics, Probability & Discrete Mathematics.

SKILLS

- **Programming Languages:** Python, SQL, C, C++, PHP, HTML, CSS.
- **Big Data & Machine Learning:** Spark, Hadoop, Scikit-learn, Numpy, Pandas, Matplotlib.
- **Data Science & Miscellaneous Technologies:** ETL, Data science pipeline (cleansing, visualization, modeling, interpretation), Excel

PROJECTS AND EXPERIENCE

House Price Prediction

Price detector with features (input) data **Project Link**

- Developed a house price prediction model using linear regression and input features to predict the price of houses.
- Used Python libraries NumPy, Pandas, Matplotlib, Seaborn, and Sklearn, for data analysis, visualization, and generating the output.
- Demonstrated expertise in data analysis and machine learning techniques through successful completion of the project.

Breast cancer detection

Cancer detector of women **Project Link**

- Designed and developed a classification model to predict breast cancer in women using multiple features.
- Employed of Python libraries NumPy, Pandas, Matplotlib, Seaborn, and Sklearn, to conduct data analysis and visualization, and accurately detect breast cancer.
- Demonstrated proficiency in machine learning techniques, data analysis, and data visualization through successful completion of the project.

CERTIFICATIONS

Artificial Intelligence Course of Samsung Innovation Campus (SIC) Online, Lahore
September 2022 – December 2022

- Gained a comprehensive understanding of artificial intelligence, including its applications, techniques, and algorithms. Demonstrated a mastery of the concepts and skills required for artificial intelligence, making me well-equipped to tackle real -world problems in the field.
- Build capstone project: **Emotion Detection**.
  Emotion detector with live camera **Project Link**
  - Developed an Emotion Detector with Live Camera using deep learning techniques.
  - Used the Keras Python library and developed a sequential deep learning model to train the input images for predicting human emotions.
  - Used OpenCV to facilitate the detection of emotions in real-time using a live camera feed.
  - Successfully predicted seven human emotions in real-time with an accuracy of 82%.
  - Trained the deep learning model using gray-scale images as input data.
  - Completed the project by designing an interactive and user-friendly GUI to display the detected emotions in real-time.