Annas Rahil

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WORK EXPERIENCE

Organization [Knowledge Streams] *(OCT 2023 – JAN 2024)*
ROLE [Data Science and Machine Learning Trainee]

- Gained foundational knowledge in Python and utilized Pandas, Numpy, Matplotlib, Scikit-Learn and TensorFlow Libraries for data exploration, visualization and prediction.
- Implemented various projects involving machine learning and deep learning algorithms and drew reliable conclusions through effective data visualization, resulting 15% improvement in data processing.
- Applied machine learning models to real-world scenarios, helped in gaining practical experience.
- Developed strong soft skills, including teamwork, time management, professionalism, and adaptability.

PROJECTS

Facial Recognition **[***Knowledge Stream***]**

- Captured 8 distinct images for each of the seven students and labeled folders for individual recognition.
- Initially experimented with 3 images but achieved significant improvement by increasing to 8 images.
- Achieved a high accuracy rate of 95%. Transitioned from unsuccessful attempts with vg-g16, facenet, dlib, and YOLO to the Python built-in face-recognition library for optimal results.

Sentiment Analysis **[***FYP***]**

- Cleaned and manipulated raw data.
- Used preprocessing, feature extraction to train the model.
- Evaluated the performance and accuracy of different machine learning and deep learning models.

Cervical Cancer Risk Prediction Using Machine Learning **[***Coursera***]**

- Developed a Cervical Cancer Risk Prediction model using XGBoost, analyzing data from 858 patients.
- Conducted thorough Exploratory Data Analysis and Data Visualization to reveal key risk factors.
- Prepared and standardized datasets, trained an XGBoost classifier using scikit-learn.
- Identified significant factors such as HPV presence, hormonal contraceptives, and immune system strength impacting cervical cancer risk.

Medical Insurance Premium Prediction with Machine Learning **[***Coursera***]**

- Analyzed medical insurance data using Exploratory Data Analysis and feature engineering techniques.
- Created impactful visualizations with tools like Matplotlib to communicate insights effectively.
- Enhanced predictions further by deploying an Artificial Neural Network.

CORE SKILLS

Programming Languages: Python, C++, SQL
Developer Tools: Jupyter Notebook, VS Code, Visual Studio, Workbench
Frameworks: TensorFlow, Django
Databases: MySQL

CERTIFICATES

IBM Data Science Professional Certification **[***Coursera***]**

EDUCATION

University of Central Punjab, Lahore
BS Computer Science (*Completion Year 2023*)