Arslan Faisal

arslan.faisal06@gmail.com | 631-720-1999 | https://www.linkedin.com/in/arslan-faisal-06 | Cleveland, OH

EDUCATION AND HONORS

Cleveland State University, Department of Electrical Engineering and Computer Science — Cleveland, OH
Master of Computer Science — December 2021 to currently enrolled

- Relevant Courses: Data Mining, Enterprise DB and Systems, Artificial Intelligence, Deep Learning, and Analysis of Algorithm
- Cumulative GPA: 3.8/4.0

The University of Lahore, Department of Electrical Engineering and Computer Science — Lahore, Pakistan
Bachelor in Computer Science, — August 2015 to September 2019

- Relevant Courses: Data structures and Algorithms, Artificial Intelligence, Computer vision, Database system, Operating system, Computer Architecture, etc. **Final Year Project First Person / Third Person war game**.
- Cumulative GPA: 3.01/4.0

PROFESSIONAL EXPERIENCE AND PROJECTS

Research Assistant — Cleveland, Ohio
Artificial Intelligence and Computer Vision Lab, Cleveland State University — 01/2022 – Present

- Implemented data mining and analytics solutions to various business problems and worked with complex data sets and translating data into insights to drive key business decisions.
- Done predictive analytics with statistical algorithms such as Regressions, ANNs, Decision Tree, Random Forest, Correlation, Multivariate Analysis, Cluster Analysis, and others.
- Used Tableau and Microsoft Power BI to design dashboards.

Query Optimizer
Performance Evaluation Experiment on Query Rewrite Optimization — 09/2021 – 12/2021

- The purpose was to process the cost of the SQL query, rewrite optimized query and find best execution plan.
- The calculation of best execution plan by iterating through join order and methods.
- Computation of query processing cost, disk I/O cost, disk access time and data transfer rate.

Covid-19 Detection using CNN and image processing

- The project was to classify the chest x-rays images of patients to estimate the existence of covid in their body.
- The use of **Keras** and **Tensorflow** for implementation of deep learning models (CNN) with different initializers like ADM and SGD.
- The Sliced data using **sklearnmodel**_section for testing and training and added layers for filters and activation to the convolutional neural network.

Natural Language Processing using Word2Vec

- The goal of the project was to generate word embedment with two layered neural networks.
- Implementation of Word2Vec using genism library
- The training methods used in this project are a **continuous bag of words (CBOW)** and **skip-gram**

TECHNICAL SKILLS

Languages: Python, R-Programming, SQL, JavaScript, C++
Machine Learning: Natural Language Processing, Imaging Recognition, and Detection, Forecasting, K-means Clustering, SVM, Single Layer Perceptron, Multi-Layered Perceptron, Word2Vec, CBOW, skip-gram
Artificial Intelligence: Text Comprehension, Classification, SVM, Pattern Recognition, and Recommendation Systems
IDE and Version Control: Jupyter Notebook, Spyder, SQL Server, Visual Code, Visual Studio, GitHub, Git
Python Packages: NumPy, Pandas, Scikit-learn, TensorFlow, SciPay, Matplotlib, OpenCV, CV2, Sklearn, Keras
Soft Skills: Teamwork, Creative Thinking, Problem-Solving, and Leadership
Visualization: Tableau Desktop, Microsoft Power BI
Analytical Methods: Advance Data Modeling, Regression, Forecasting, Predictive, Semantic, Associative Analysis, Behavioral Modeling, Linear Modeling, Predictive Modeling, Statistics analysis

LEADERSHIP

Teacher Assistant — Cleveland, OH
Foundations of Computer Science + Software Engineering (Cleveland State University) — Oct 2021 – Present

- Collaborated with the instructor to lead recitations, grade coursework, and answer 60+ students' questions.
- Preparing Tutorial of Html, CSS, Bootstrap, JavaScript and go through fundamentals of software Engineering.

Greeter / Wheelchair Assistance — Cleveland, OH
Vaccination center (Wolstein Center at Cleveland State University) — April 2021 – July 2021