Muhammad Talal Qaiser
Software Engineer

A student of master's in Simulation and Visualization specializing in Machine Learning. With a strong foundation in Python, knowledge of JavaScript, HTML/CSS, and the basics of C++, I am eager to showcase my skills and projects in this exciting and rapidly evolving field. I have honed my skills in developing and implementing various machine learning and deep learning academic projects.

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EDUCATION

Masters in Simulation and Visualization
Norwegian University of Science and Technology, Norway

08/2021 - Present   *Grade: B*

Bachelors in Mechanical Engineering
National University of Science and Technology, Pakistan

09/2014 - 09/2018   *CGPA: 3.24/4.00*

WORK EXPERIENCE

Student Research Assistant
Norwegian University of Science and Technology

06/2022 - 08/2022   *Ålesund, Norway*

Development of Digital Twin Prototype for Wind Farm

- Developed a **Digital Twin** of the Hywind Tampen offshore wind farm on **Unity.**
- Estimated **power production** based on historical weather.
- Generated various scenarios and wrote conference paper.

Assistant Manager
Style Textile

09/2019 - 08/2021   *Lahore, Pakistan*

Special Projects Department

- Led a team, collaborating on a project with the experts of **Toyota Engineering Corporation** for performance enhancement and introducing automation and robotics in different industrial applications.
- Worked with IT Team on the development of multiple KPIs-based **dashboards** using **Qlik**.
- Led BRT (Barrier Removal Team) meetings on weekly basis to monitor the progress of various departments.

Management Trainee Officer
Style Textile

09/2018 - 09/2019   *Lahore, Pakistan*

Special Projects Depratment

- Undergone 6 weeks of training on **management** modules under the **Management Development Program**.
- Worked on different statistical and mathematical models to optimize processes.
- Used different tools including **flow charts, SIPOC, and Value stream mapping.**

SKILLS

Pyhton · JavaScript · HTML · CSS · C++
Excel · Unity · Minitab
Machine Learning/Deep Learning

ACADEMIC PROJECTS

Data Analysis of sensor values and predicted turbines' running failure 60mins in advance using MLP with 90% accuracy.

Prediction of suicide cases using linear regression and MLP, reading and predicting digits from the MNIST dataset, and image recognition using AlexNet and VGG16.

Forecasted covid cases and deaths on time series using linear model regression and visualize it using dash and plotly.

Designed a webpage for our course Experts in Team, where we came up with the business idea of renting a boat.

Designed a 3D model of Ålesund using Mapbox in UNITY. Simulated the movement of the sun for the day and night animation, created a graphical user interface to insert and delete light devices and computed a heatmap to encode light variation.

Designed the mechanism of a rice paddy planter. Applied multiple stress and strain-based mathematical models. Performed structural and vibrational analysis of its structure.

CERTIFICATES

Programming Foundations with JavaScript, HTML and CSS

Problem-solving Using Computational Thinking

Object Oriented Data Structure in C++

Lean Six Sigma Yellow Belt

LANGUAGES

English
Full Professional Proficiency

Urdu
Native or Bilingual Proficiency