Sialkot, Pakistan.
fazilarubab123@gmail.com
fazilarubab.github.io
February 19, 2001

Fazila - Rubab

Seeking a Job Opportunity

Education

2018–2022 **COMSATS University Islamabad, Pakistan**
BS in Software Engineering - CGPA: 3.12
Graduation September - 2022
FYP: *Development of graphical user interface for data-driven modeling with tabular data*

2023–2025 **Military College of Signals, NUST, Pakistan**
MS in Software Engineering
Post-Graduation - 2025
Thesis: *Flood Prediction Platform Using Deep Learning (DL) at daily scale*

Projects

Final Year Project

Sept, 21 - Jul, 22 **Development of graphical user interface for data-driven modeling with tabular data,**
An easy to use application for non-programmers to train supervised machine learning models.
Python/Html, CSS environment, Django Framework

Other Projects

Feb - June, 19 **Railway Management System,** Database
This system shall automate the traditional manual systems of railway management. *Java environment*

Oct-Dec, 20 **Book Store Management System,** *Software Requirement Engineering*
To improve the sales and store data on a single database in a more efficient and disciplined manner.
Figma Prototyping

Oct-Dec, 21 **Educational Website,** *Scripting Languages*
Aims to make learning process more advanced by moving it from traditional platforms to advanced ones. *Html, CSS environment*

Oct-Dec, 22 **Cash & Carry,** *Desktop Application*
This system shall help customers to automate shopping, allowing customers for online shopping.
Python and Tkinter environment

Mar-May, 23 **Who Am I?** *Web Development*
Aims to make personal website by creating inspiring Html, CSS and JavaScript environment across pages showcasing my education and other details.
Html, CSS and JavaScript environment

Publications

1. **Rubab, F.**, Iftikhar, S., & Abbas, A. (2024). SeqMetrics: a unified library for performance metrics calculation in Python. *Journal of Open Source Software*, *9*(99), 6450.

2. Iftikhar, S., Karim, A. M., Karim, A. M., Karim, M. A., Aslam, M., **Rubab**, **F**., ... & Yasir, M. (2023). Prediction and interpretation of antibiotic-resistance genes occurrence at recreational beaches using machine learning models. *Journal of Environmental Management*, *328*, 116969.
3. Iftikhar, S., Zahra, N., , **Rubab, F**., Sumra, R,A. S. F., Khan, M. B., Abbas, A., & Jaffari, Z. H. (2023). Artificial neural networks for insights into adsorption capacity of industrial dyes using carbon-based materials. *Separation and Purification Technology*, 124891.

4. Ishtiaq, R., Zahra, N., Iftikhar, S., **Rubab, F**., Sultan, K., Abbas, A., Lam, S.M., Jaffari, Z.H. and Park, K.Y., 2024. Adsorption of Cr (VI) ions onto fluorine-free niobium carbide (MXene) and machine learning prediction with high precision. *Journal of Environmental Chemical Engineering*, *12*(2), p.112238.

5. Iftikhar S, Ishtiaq R, Zahra N, **Rubab F**, Lam SM, Abbas A, Jaffari ZH. Probabilistic prediction of phosphate ion adsorption onto biochar materials using a large dataset and online deployment. Chemosphere. 2025 Feb;370:144031. doi: 10.1016/j.chemosphere.2024.144031. Epub 2024 Dec 28. PMID: 39732408.

Technical skills

Database	MySQL (Data storage, Data retrieval, Data manipulation, Data analysis, Data modeling, Data reporting, Data integration)
Operating System	Linux, Microsoft Windows
Software/Tool (UML	Tableau, Excel, Power BI Desktop (Data Analysis), MS Project (Project Management), UML Diagram Designing e.g. DFD, Use Case etc.), Figma (Prototyping), Wordpress, GoHighLevel , Google Sites (Web Development), LaTEX (Documentation)

Programming Languages

Python	Data Preprocessing, Exploratory Data Analysis, Data Visualization (matplotlib, seaborn, plotly), Machine Learning, Model Selection, Model Training (keras, sickitlearn, pytorch), Model Evaluation, Clustering Algorithm
Java	JFrame for designing management systems
Html, CSS, Javascript	Web Development

Certifications

- Open Badge by Fun Mooc (Sickit-Learn)
- Machine Learning Specialization By Stanford (Coursera)
    - Supervised Machine Learning: Regression and Classification By Stanford
    - Advanced Learning Algorithms By Stanford
    - Unsupervised Learning, Recommenders, Reinforcement Learning By Stanford

Interests

- Web Designing
- UI Designing
- -Python Programming
- Machine Learning

Languages

English Intermediate *(IELTS: 7.0 Band Score)*