**Muawaz Saleem**

+92 309 6566528 | muawazasaleem@gmail.com | LinkedIn: [Muawaz Saleem](https://pk.linkedin.com/in/muawaz-saleem) | GitHub: [Muawaz](http://github.com/Muawaz)

**WORK EXPERIENCE**

**AI/ML Trainee | [Samsung Innovation Camp](https://www.samsung.com/pk/innovation-campus/)** *(Oct-Dec 2024)*

* Gained hands-on experience in data cleaning, exploratory data analysis (EDA), and the application of machine learning and deep learning methodologies.
* Created insightful visualizations to support data-driven decision-making and enhance communication of complex data insights.
* Collaborated on group projects to strengthen teamwork skills and create a supportive, collaborative learning atmosphere.

**Python (Django) Trainee | [Navttc](https://navttc.gov.pk/)** *(Jul-Oct 2024)*

* Developed backend skills using Django Rest Framework, focusing on API creation, authentication, and secure user management.
* Started with Python basics, advanced through OOP and data structures, then built simple and functional APIs, culminating in class-based APIs.
* This comprehensive learning path enhanced my ability to create secure web applications and deepened my understanding of backend development.

**FocusOnSkills Participant | [Focusteck](https://www.linkedin.com/company/focusteck/)** *(Sep 2024)*

* Acquired full-stack development skills in a 4-week boot camp, mastering PERN.
* Collaborated with a team to create an “email marketing SaaS application” where I led the implementation of the authentication and authorization module to ensure secure user access.
* Improved user experience through robust security features, ultimately contributing to the application's success and demonstrating my ability to deliver valuable solutions in a team setting.

**PROJECTS**

**LungScanAI | Tensorflow, Keras**

* Trained multiple deep learning models (DenseNet-121, ResNet-50, VGG-16, AlexNet, LeNet, EfficientNet-B0) for chest X-ray analysis and evaluated their performance.
* Built an improved ensemble model achieving an f1-score of 0.95 in detecting Pneumonia, Tuberculosis, COVID-19, and Lung Cancer.
* Deployed the model in a web app for real-time, multi-disease diagnosis to aid healthcare professionals.

**Product Recommendation System | Tensorflow, Keras, Sklearn**

* Extracted image features using a pre-trained VGG16 model to represent products as feature vectors for similarity comparison.
* Developed a recommendation system by calculating cosine similarity between a test image and a dataset of product images.
* Visualized top 5 recommendations by displaying the most similar products based on similarity scores, aiding in product discovery.

**CORE SKILLS**

**Programming Languages:** Python, JavaScript, Kotlin, C++, C#, x86, Bash Scripting

**Backend Development:** Express, NodeJS, Python, Django

**Databases:** MySQL, PostgreSQL, Oracle 11g

**Frontend Development:** ReactJS, Zustand, JavaScript, TypeSript, BootStrap, ChakraUI, Zod, HTML, CSS

**Tools:** Eclipse, MS Visual Studio, Git, Postman

**TRAINING & CERTIFICATIONS**

[JavaScript Algorithms and Data Structures](https://www.freecodecamp.org/certification/fcc9555d963-a639-432e-ac75-66ba14ac4f34/javascript-algorithms-and-data-structures) | freeCodeCamp | Oct 2022

[Responsive Web Design](https://www.freecodecamp.org/certification/fcc9555d963-a639-432e-ac75-66ba14ac4f34/responsive-web-design) | freeCodeCamp | Aug 2022

**EDUCATION**

[FAST National University of Computer and Emerging Sciences](https://www.nu.edu.pk/) *(Aug 2018-2024)*  
B.S. Computer Science | Artificial Intelligence, Software for Mobile Devices, Information Retrieval, Digital Image Processing, Quantum Computing