

Muawaz Saleem

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WORK EXPERIENCE

AI/ML Trainee | [Samsung Innovation Camp](#)

(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](#)

(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](#)

(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) for chest X-ray analysis and evaluated their performance.
- Built an improved ensemble model achieving an f1-score of 0.92 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, HTML, CSS, Kotlin, C++, C#, x86, Bash Scripting

Backend Development: Express, NodeJS, Python, Django

Databases: MySQL, PostgreSQL, Oracle 11g

Frontend Development: ReactJS, Zustand, JavaScript, TypeScript, Bootstrap, ChakraUI, Zod, HTML, CSS

Tools: Eclipse, MS Visual Studio, Git, Postman

TRAINING & CERTIFICATIONS

[JavaScript Algorithms and Data Structures](#) | freeCodeCamp | Oct 2022

[Responsive Web Design](#) | freeCodeCamp | Aug 2022

EDUCATION

[FAST National University of Computer and Emerging Sciences](#)

(Aug 2018-2024)

B.S. Computer Science | Artificial Intelligence, Software for Mobile Devices, Information Retrieval, Digital

Image Processing, Quantum Computing