# Sanad Jamal Alali

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### **EDUCATION**

#### **Bachelor in Data Science**

University of Jordan • Jordan, Amman • 2025

· A fresh undergraduate student at the University of Jordan

### **EXPERIENCE**

### CO-FOUNDER & LEAD UI/DEVELOPER | MuscleMe Fitness App

July 2024 - Present

- Designed and launched an AI-driven fitness tracking platform with over 500 active users.
- Developed machine learning models to deliver tailored meal and workout recommendations.
- Enhanced user experience with intuitive UI/UX, achieving a 95% satisfaction rate.
- Improved application performance by reducing load times by 20%.

#### **PROJECTS**

#### Bird's-Eye Mapper: Road Segmentation from Satellite Images

github.com/SanaD-03-alali/Image-Segmentation-using-Unet

- · Developed a U-Net model to segment roads from satellite images, achieving high accuracy in pixel-wise classification.
- · Enhanced dataset diversity by integrating original, generated, and augmented images to improve model robustness.
- · Applied advanced preprocessing techniques, such as Pix2Pix GAN, to generate augmented data for effective training and evaluation.

#### Football Analysis in R

github.com/SanaD-03-alali/Premier-League-2023-24-Analysis-in-R/tree/main

- Developed an interactive R and Shiny app for analyzing Premier League 2023/24 data, including player performance and match statistics.
- · Created advanced visualizations with ggplot2, leaflet, and treemapify to represent football data in an engaging way.
- Integrated diverse data sources to provide actionable insights through a web-based application.

## **Vegetable CNN and Transfer Learning**

github.com/SanaD-03-alali/Image-Classification-using-CNN

- Implemented a Convolutional Neural Network (CNN) from scratch for image classification using the Vegetable Image Dataset, and leveraged a pretrained ResNet-101 model for enhanced image classification performance.
- Achieved high accuracy: CNN model (Train: 97.09%, Validation: 96.37%, Test: 96.07%).
- ResNet-101 model outperformed with (Train: 98.44%, Validation: 98.69%, Test: 98.32%).

## DR.DIAGNOSTIC - Team Project

github.com/Huthay fa-Hodeb/Dr. Diagnostic-Chest-x-ray-Multiclassification-Detection-and-Generating-Report

- · Developed a novel combined architecture for tumor detection and report generation, achieving state-of-the-art performance on tumor detection model.
- Achieved an 18.6 mAP in tumor detection using the NIH dataset with the integrated model.
- Trained the report generation component on the MIMIC dataset, ensuring high performance even with a small dataset.
- Advanced medical AI by merging detection and report generation into a unified model.

#### **Machine Learning and Time Series Prediction**

github.com/SanaD-03-alali/Machine\_Learning\_Project

- · Successfully developed and implemented classification algorithms including MLP, SVM, and Gradient Boosting Classifier.
- Achieved high testing accuracies of 94.04% with MLP, 92.98% with SVM, and 95% with Gradient Boosting Classifier.
- Utilized LSTM, Bidirectional LSTM (BiLSTM) with loss values 0.0013, 0.0014 respectively, and Echo State Network (ESN) models for time series prediction of gold prices.

## **SKILLS**

- · Programming Languages: Python, R
- Data Science & AI: Machine Learning (Python), Deep Learning, Time series, Feature Engineering, Feature Selection, hyperparameter optimization.
- Data Visualization: Power BI, Tableau
- App Development: Flutter (Dart), Firebase (AI-integrated applications).

# **CERTIFICATIONS**

## **Hyperparameter Optimization for Machine Learning**

Udemy • 2025

# Microsoft Excel - Beginner to Advanced

Udemy • 2025

## A deep understanding of deep learning

Udemy • 2024

### **Machine Learning Specialization**

Coursera • 2024

# **Feature Engineering for Machine Learning**

Udemy • 2024

# **Feature Selection for Machine Learning**

Udemy • 2024

### Flutter & Dart - The Complete Guide

Udemy • 2024

# **R Programming**

Udemy • 2024

#### **Introduction to Microsoft Power BI**

Udemy • 2024

### Tableau 2024 A-Z

Udemy • 2024

# **Data Analyst with Python**

DataCamp • 2023

## **Associate Data Scientist in Python**

DataCamp • 2023

## **INVOLVEMENT**

## **Team Member**

University of Jordan • JU Hackathon

- Participated in a 3-day JU Hackathon, collaborating with a team to develop an AI-powered app that reminds students of coursework deadlines and sends automated reminders.
- Secured 1st place in the App Development category for innovation and functionality.