

# Sanad Jamal Alali

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## EDUCATION

### Bachelor in Data Science

University of Jordan • Jordan, Amman • 2025

- A fresh graduate student at the University of Jordan
- GPA: 3.66 (Excellent)

## 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](https://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](https://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](https://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/Huthayfa-Hodeb/Dr.Diagnostic-Chest-x-ray-Multiclassification-Detection-and-Generating-Report](https://github.com/Huthayfa-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](https://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, Excel, SQL
- **App Development:** Flutter (Dart), Firebase (AI-integrated applications).
- **Languages:** Arabic (Fluent), English (Very Good).

## 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

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**INVOLVEMENT**

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**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.
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