

# Muhammad Moiz

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## Skills

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- **Programming Languages:** JavaScript, Python, Java, C++.
- **Libraries/Frameworks:** React, ExpressJs, TensorFlow, Keras, Pandas, NumPy, Flask, OpenCV, Matplotlib, PyTorch, Shap
- **Tools & Technologies:** NodeJs, Docker, GitHub Workflow, Git, Flask, Restful Apis, MongoDB, Agile Methodologies.
- **Key Expertise:** MERN Stack Application, AI/ML Frameworks, Data Engineering, Data Preprocessing, Feature Engineering, Model Evaluation, Machine Learning, Data Mining, Data Visualization.

## WORK EXPERIENCE

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### Modisoft Pvt Ltd

Computer Support Specialist

Islamabad, Pakistan

- **Respond to Customer Inquiries**  
Handle customer questions via phone, email, or chat to resolve issues quickly and professionally.
- **Provide Technical Support**  
Troubleshoot hardware and software issues related to Modisoft's POS systems and escalate when needed.
- **Guide Users Through Features**  
Assist customers in understanding and using Modisoft's features to improve their business operations.
- **Document Interactions and Issues**  
Record customer interactions and technical problems accurately in internal systems for future reference.
- **Escalate Complex Cases**  
Identify issues that need higher-level support and pass them to the appropriate technical or development team.

## EDUCATION

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### Comsats University Islamabad

BS Software Engineering

Islamabad, Pakistan

- **Key Coursework:** Artificial Intelligence, Software Requirement Engineering, Advanced Web Technologies, Data Structures, Software Engineering, Database Systems, Programming Fundamentals, Computer Networking
- Maintained a good academic career while leading technical projects and participating in extracurricular activities.

## PERSONAL PROJECTS

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### AgroTech

**Technologies:** Mern Stack, Python, Keras, TensorFlow, Flask, OpenCV, Rasa, PyTorch

- Designed a smart agricultural platform leveraging AI for crop recommendation, health monitoring, and yield prediction.
- Integrated ML and image recognition to enable precise analysis of crop health, crop quality and crop maturity.
- Deployed an AI-powered chatbot and analytics dashboard to assist farmers in real-time decision making.

### Fruit Quality Detection

**Technologies:** PyTorch, Faster R-CNN, ResNet50, Grad-CAM, SHAP, OpenCV, TorchVision, FastAPI, Mixed Precision Training, ReduceLROnPlateau

- Designed a custom Faster RCNN-based model with ResNet50 backbone for simultaneous fruit classification and quality detection.
- Implemented a hybrid architecture combining object detection (for fruit identification) with quality assessment heads (for Good/Bad classification).

- Developed comprehensive data pipeline handling both fruit and non-fruit images, with advanced augmentation techniques including random flips and color jitter.
- Incorporated explainability features using Grad-CAM and SHAP to visualize model decision-making process for both classification and quality assessment.

## **Semantic Analyzer**

### **Technologies: Python, MERN , Flask, TensorFlow**

- Developed a MERN-Stack application integrated with machine learning to analyze text semantics and classify sentiments as positive, negative, or neutral.
- Built a data pipeline for text preprocessing, feature extraction, and model training
- Utilized TensorFlow to develop and train deep learning models for accurate semantic analysis.
- Created a React frontend and Flask API backend to deliver real-time semantic analysis predictions.

## **SuperMarket Management System**

### **Technologies: Java, MongoDB, SQL**

- Developed a desktop-based application for supermarket operations using Java with MongoDB and SQL integration.
- Implemented key object-oriented programming concepts to ensure modular and maintainable code.
- Utilized MongoDB for efficient data storage and management of supermarket records

## **CERTIFICATIONS**

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### **CCNA v7**

- Gained foundational knowledge in networking concepts, IP addressing, routing, and switching.
- Equipped with skills to configure, troubleshoot, and manage small to medium-sized enterprise networks