Mohammed Sabbah

Machine Learning Engineer | Deep Learning & Computer Vision Enthusiast

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Summary

Machine Learning Engineer with practical experience in deep learning and computer vision. Skilled in model development, data preprocessing, and deployment using modern ML frameworks. Actively seeking a fulltime role in AI research or software development to contribute to real-world machine learning solutions and grow professionally in the field.

Education

Bachelor's Degree in Computer Engineering
Islamic University, Gaza, Palestine
GPA: 85.45% Equivalent to 3.5/4.0
09/2020 - 07/2025

Certifications

- **TensorFlow: Data and Deployment** – Coursera
- **DeepLearning.AI TensorFlow Developer** – Coursera
- **Introduction to Computer Vision and Image Processing** – Coursera
- **Neural Networks and Deep Learning** – Coursera
- **Machine Learning** – Coursera
- **Advanced English Language** – Cambridge Training College Britain

Languages

- **Arabic (Native Speaker).**
- **English (Advance).**

Skills

- **Programming Languages & Libraries:** Python, Java, JavaScript, SQL.
- **Machine Learning & Deep Learning:** TensorFlow& Keras, Computer Vision, PyTorch, Neural Networks, Transfer Learning.
- **Software Development:** Object-Oriented Programming (OOP), System Deployment.
- **Data Science & Analytics:** Pandas, NumPy, Matplotlib, Scikit-learn.
- **Development & Tools:** Git& GitHub, Docker (Basic), Jupyter & Colab, REST APIS.
- **Soft Skills:** Problem-Solving, Teamwork, Quick Learner, Communication Skills.

Projects & Experience

- **Planto – Plant Disease Detection App**
  Developed a mobile app using **Flutter** and **TensorFlow** for classifying plant diseases.
  - Built and fine-tuned deep learning models for plant leaf image classification.
  - Implemented both a general model and specific sub-models for different plant types.
  - Achieved **over 98% accuracy on validation sets** across all plant-specific sub-models.
  - Responsible for data preprocessing, model evaluation, and deployment to mobile platforms.

    App Video Demo

- **Face Recognition System Using YOLO, FaceNet, FAISS, OpenCV, and PostgreSQL**
  - Developed a real-time face recognition system for video streams using Python and OpenCV.
  - Integrated YOLO for fast and accurate face detection in each frame.
  - Used FaceNet to generate face embeddings and FAISS for efficient similarity search.
  - Stored user metadata and embeddings in PostgreSQL for scalable identity management.
  - Achieved high-accuracy identification with low-latency inference across large datasets.

- **Image Classification Projects**
  Built deep learning models for image classification using **TensorFlow** and **Keras**.

  - Applied data augmentation, CNN architectures, and real-time prediction pipelines.

- **Research on Applied Machine Learning**
  Implemented and experimented with state-of-the-art deep learning architectures including AlexNet, ResNet, U-Net, and VGG for various computer vision tasks such as image classification and segmentation. Conducted model training, fine-tuning, and evaluation on custom and benchmark datasets. Analyzed model performance, optimized hyperparameters, and compared results to understand strengths and limitations of each architecture.

  Explore my projects: https://github.com/molioace