

# Ammar Mahmoud *Machine learning Engineer*

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## Summary

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### Machine Learning

Results-driven Machine Learning Engineer with expertise in designing and deploying scalable AI solutions. Skilled in Python, TensorFlow, PyTorch, and cloud-based ML deployment. Passionate about optimizing models for real-world applications in computer vision, NLP, and predictive analytics. Strong foundation in mathematics, data preprocessing, and model evaluation.

## Skills

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- Programming: Python, SQL, C++

Machine Learning & AI: Supervised & Unsupervised Learning, CNNs, RNNs, Transformers,

Frameworks & Libraries: TensorFlow, PyTorch, Scikit-Learn, OpenCV, XGBoost,

Data Processing: NumPy, Pandas, Matplotlib, Seaborn

Model Evaluation & Optimization: Cross-Validation, Hyperparameter Tuning

Cloud & Deployment: AWS (S3, EC2, SageMaker), GCP, Docker, Kubernetes, Flask, FastAPI

Tools & Platforms: Jupyter Notebook, Google Colab, Git, MLflow

## Projects

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2025/01 – 2025/01

### Mask Detection

using yolo5 to detect if the person wore the mask or not

2025/02 – 2025/02

### Skin Cancer Diagnosis

Make diagnosis 2 classes using transfer learning

2024/12 – 2024/12

### Covide19 Diagnosis

Using CNN to classify 3 classes and achieved accuracy 95%

2024/12 – 2024/12

### Brain Tumor Segmentation

using U net to segment Tumor

2025/01 – 2025/01

### Sentiment Analysis

Using LSTM to classify positive or negative comments

2023/01 – 2023/07

### Respiratory Sound

*Graduation Project*

-It is an application that diagnoses respiratory diseases, as the doctor can take a recording of the breath through a stethoscope and then send it to the model, and the model diagnoses the disease. This was done by training the model on Dataset for patients suffering from these diseases, and I was able to achieve a high accuracy of 94%

## Education

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2019/09 – 2023/07

### Bachelor's degree in Medical Informatics Department

*Faculty of Computer and Artificial Intelligence*

GPA : 3.2 of 4 (Very Good)

**Languages**

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- Arabic
- English

**Soft Skills**

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**Communication**

**Creativity**

**Attention to details**

**Teamwork**

**Research**