

# Abdalrahmen Yousef *Machine Learning*

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📍 Egypt, Mansoura

🛡 Exempted

in LinkedIn

🐙 Git

●● abdalrahmen

## Profile

- **Software Engineer** with a focus on **artificial intelligence** and **machine learning**. experience proficient in creating, deploying, and managing end-to-end AI projects. I specialize in **Agile methodologies** and **Software Development Life Cycle**, ensuring efficient and timely delivery. My expertise extends to **Generative AI**, where I've led innovative projects pushing the boundaries of traditional problem-solving
- **Adept** at delivering impactful results and contributing to team success in dynamic, collaborative environments. Excited to leverage my expertise in creating and **deploying** cutting-edge AI solutions to drive innovation in your organization
- My dedication to the field of Machine Learning and Artificial Intelligence, along with my problem-solving skills and knowledge of related technologies
- I also undertook internships that provided hands-on experience in implementing machine learning algorithms. In one particular internship, I contributed to the development of a recommendation system that significantly improved user engagement. This experience allowed me to apply my theoretical knowledge in a professional setting and exposed me to the intricacies of deploying machine learning models in a production environment.

## Skills

### Generative AI (Llama, OpenAI,Amazon Bedrock)

*Fine-Tuned models  
and train them in a  
specific use cases*

### FASTAPI & FLASK & Docker CI/CD GitHub

**python**  
*used advanced  
techniques for  
building models*

**Time Series**  
*collaborated to  
make financial  
analysis*

### AWS

*Amazon Bedrok ,  
Lambda Function ,  
SageMaker , s3  
buckets , IAM  
permissions*

### terraform & MLflow

**C++**  
*How to build neural  
network and apply  
memory efficiency*

### Additional Skills

*1.CyperSecurity  
(OSCP , Web  
Pentesting ,  
Network)  
2. Flutter  
development apps  
& Engagment API &  
Backend  
Laravel*

### Google Cloud Platform

*Deploy machine  
leaning model in  
production  
environment*

### PySpark & PostgreSQL Data analysis

**pytorch**  
*Build deep learning  
models with full  
control over  
training process*

### Data Analysis

*Excel , PowerBI ,  
Building  
DashBoards*

### Tensorflow & Keras

*Build varies models  
from scratch + read  
books master  
tensorflow*

### Yolov8

*Fine-tune model in  
Car Plate  
Characters  
Recognition with  
YOLO*

### C#

*Created Desktop  
apps*

## Projects

### LBP, Low Back Pain

Low back pain |Lumber spain detection by values provided by  
sensors is placed in back of patient or MRI data

December 2022 –  
August 2023

**Drowsiness detection while driving,** *Implementing a system to detect drowsiness during driving involves the use of various technologies and sensors.* ☑

June 2021 –  
November 2021

Facial Recognition , Eye-Tracking Technology, Steering Behavior Analysis , Machine Learning Models , Wearable Devices , Alert Systems , Infrared Sensors , Integration with Vehicle Systems

**TwitGenius** ☑

a groundbreaking startup at the intersection of AI and social media

August 2023 –  
October 2023

**Reinforcement Learning, RL** ☑

My experience with Reinforcement Learning has not only enhanced my technical skills but also provided me with a deep understanding of how intelligent agents can learn to make optimal decisions in dynamic and uncertain environments. I am passionate about leveraging RL techniques to solve real-world problems and drive innovations in AI-driven applications (Autonomous Driving & Game Playing & Automated Trading Strategies )

**AskY,**

<https://github.com/abdalrahmenyousifMohamed/LLM/tree/2185147ea69a9c684582aeb46aff439988766102/ClassGPT>  
Ask Your Files

July 2023 – August 2023

**Car Plate Characters Recognition,**

*Car Plate Characters Recognition with YOLO*

**Led a comprehensive exploration to develop a robust machine learning model for Arabic letter and number recognition on Egyptian car plates**

- Explored Convolutional Neural Networks (CNNs) for sequential data handling, experimenting with diverse CNN encoders and sequential decoders. Employed the PyTorch Lightning framework for streamlined and organized code, while leveraging the new PyTorch v2 transformers module for efficient data augmentation. Achieved noteworthy advancements in both model accuracy and code structure, contributing to the cutting-edge landscape of Arabic character recognition in the context of Egyptian car plates

## Awards

### **Devfest Mansoura Hackathon, GDG**

22nd October 2023

Participated in Devfest Mansoura Hackathon 2023 as a competitor from Sector X and successfully finished as a First Place, achieved by GDG Delta to provide our community with new solutions for community problems


### **Kaggle, Open Problems – Single-Cell Perturbations**


Championed breakthroughs in Open Problems – Single-Cell Perturbations, achieving remarkable success with low error rate predictions on various perturbations. Spearheaded initiatives that significantly advanced the field and showcased a commitment to delivering high-impact results in complex problem-solving scenarios

### **lablab, lablab.ai** [↗](#)

Independently participated in the TruEra Challenge, showcasing my proficiency by building LLM Applications with Google Cloud Vertex AI on lablab. Successfully conceptualized and created a powerful app, demonstrating not only technical prowess but also a proactive approach to innovation and problem-solving

## Certificates

**Forge Data Analysis**  (Completed a simulation focused on advising a client on customer targeting with the Data, Analytics & Modelling team - Assessed data quality and completeness in preparation for analysis - Analysed data to target high-value customers based on demographics and attributes -Developed dashboards to communicate findings with visuals)

**Building LLM-Powered Applications**  (I am adept at architecting and building Language Model (LLM)-powered applications that redefine user experiences. Proficient in leveraging cutting-edge techniques such as Transformers and attention mechanisms, I create intelligent systems for natural language understanding and generation.)

**Amazon Bedrock** (How to use with Prompt Engineering and Fine-tune LLM)

## Languages

**English**

IELTS

**Arabic**

## Courses

**Amazon Bedrock, AWS**

How to use LLMS and Fine-tune and Planning a Generative AI project and how to use Prompt Engineering

November 2023 –  
December 2023  
Mansoura, Egypt

**Data Analysis, Forage** 

Completed a simulation focused on advising a client on customer targeting with the Data, Analytics & Modelling team  
Assessed data quality and completeness in preparation for analysis  
Analysed data to target high-value customers based on demographics and attributes  
Developed dashboards to communicate findings with visuals

October 2023 –  
November 2023

**LLm apps, Wandb** [↗](#)

How to Build LLM apps and deploy in production

September 2023 –

October 2023

Mansoura, Mansoura

**SQL, DataCamp**

learned how to use SQL and PostgreSQL to make full analysis for dataset

February 2022 – April 2022

**TimeSeries Analysis, DataScience365**

How to deal with Time series data and going all the way of preprocessing , cleaning,transforming,use Statistics etc.

March 2022 – June 2023

**Machine Learning, Microsoft Courses** [↗](#)

Online

apply these classic techniques to data from many areas of the world. Each lesson includes pre- and post-lesson quizzes, written instructions to complete the lesson, a solution, an assignment, and more. Our project-based pedagogy allows you to learn while building, a proven way for new skills to 'stick'.

## Education

**Software Engineering, Mansoura University**

Bachelor of computer sciences and informations in major Software Engineering

July 2019 – August 2023

Manoura, Mansoura

## Publications

**Books**

- Introduction to natural language processing using deep learning
- Introduction to deep learning starting with PyTorch
- Master TensorFlow

## References

### **NTI Tech Solutions, Egypt ,Mansoura,**

*Led cross-functional teams in gathering requirements and successfully delivered transformative AI solutions, fostering seamless collaboration and ensuring alignment with project objectives,*

Pioneered research initiatives on state-of-the-art AI technologies, translating findings into practical applications for impactful integration into real-world projects. Demonstrated a commitment to excellence in team dynamics and the application of cutting-edge technologies to achieve project success

### **Machine Learning python | Mansoura University,**

*proven track record of implementing computer vision algorithms for Sound and Video Processing, pivotal to an autonomous vehicle detection project. Spearheaded groundbreaking research on state-of-the-art AI technologies, resulting in their successful application to real-world projects,*

Collaborated with data scientists and engineers to preprocess and analyze large datasets for machine learning projects and Contributed to the improvement of existing machine learning models through insightful analysis and experimentation