



Omar Ayman Elgemaey

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 LinkedIn Profile  GitHub Profile

Profile

AI Engineer with experience in building machine learning and deep learning models. Skilled in Python, TensorFlow, PyTorch, and data handling tools. Worked on projects involving computer vision, NLP, and predictive analytics. Able to train, test, and deploy models for real-world use. Fast learner, problem-solver, and team player.

Education

9-Month Professional Diploma, Artificial Intelligence and Machine Learning Track 10/2024 – 06/2025

- (ITI) Information Technology Institute ,(MCIT) Ministry Of Communications And Information Technology

Faculty of Engineering - Mansoura university 2019 – 2024

- Bachelor in Electronics and communication
- Cumulative Grade : Very Good with honor
- Graduation Project Grade : Excellent

Projects

D.E.B.R.I.S (detection and exploration bot for rescue, investigation and survival) 

- Developed a real-time human detection system using AMG8833 thermal sensor and ESP32 camera.
- Designed and implemented a convolutional neural network (CNN) to detect human or not human, achieving detection accuracy of over 90%.
- Designed a real-time object detection system utilizing YOLOv8 on an ESP32 camera, achieving high accuracy in dynamic environments.

Twitter Hate Speech Classification 

- Built a machine learning model to classify tweets as hate speech or normal.
- Applied and compared NLP techniques: TF-IDF, Word2Vec, GloVe
- Achieved 93% accuracy on real-world Twitter data

SMS Classification

- Used Naive Bayes Algorithm to build model to train it to detect spam SMSs, achieving detection accuracy of over 97%.

Technical skills

Programming languages

- Python, C++ (oop), SQL

Machine learning and deep learning

- Scikit-Learn, Pandas, NumPy, Tensorflow, pytorch, OpenCV

Courses

Deep Learning Specialization, Coursera (online) 2023

Machine Learning Specialization, Coursera (online) 2023

Python Programming, Udacity (online) 2022

CISCO CCNA (Mansoura university) 2021

Internships

Mentronix 07/2023 – 09/2023

- Gained hands-on experience in PCB design using Siemens PADS Professional. Cairo

Egyptian Electricity Transmission Company 07/2022 – 09/2022

- Develop hands-on experience in the design, testing, and maintenance of electrical systems, with a focus on safety and efficiency.

Extracurricular Activities

Target team Mansoura, team member 2019 – 2023

- Charity, event planning and voluntary team at Mansoura University.

Enactus, Mini Dollars Project member 2017 – 2019

- International nonprofit organization dedicated to inspiring students to improve the world through entrepreneurial action.

Personal Skills

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|------------------------|-----------------------------|
| • Communication skills | Time Management |
| • Creativity | Leadership |
| • Teamwork | Problem-Solving(Proficient) |

Languages

- | | |
|-------------------|--------------------|
| • Arabic (Native) | • English (Fluent) |
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