Nour-Eldeen Anwar Mohamed

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Career Objective

Data Science graduate and M.Sc. Computer Science student passionate about AI, Machine Learning, and Computer Vision. Aiming to apply analytical and research skills to develop intelligent, data-driven solutions that enhance automation, efficiency, and innovation in real-world systems.

Education

- **Bachelor of Data Science** – Alexandria University. (**2021-2025**)
- **Master of Science in Computer Science** – Ain Shams University *(2025 – Present)*

Professional Training and Certificates

- **AI Track – Samsung Innovation Campus (Organized by Samsung Electronics, Egypt – 2025)**
  - Completed the AI track covering data analysis, machine learning, deep learning, data handling, and AI applications.

Data Analysis – My Communication (Jun 2023 – Aug 2023)

- Developed expertise in data analysis using Power BI, focusing on deriving insights and supporting data-driven decision-making.

Machine Learning Specialization by DeepLearning.A-Certificate

Google Data Analytics-Certificate

Data Analysis (egFWD)-Certificate

Projects

Muthmir – Smart Agriculture System(Graduation Project)

- Built a smart greenhouse using IoT, AI, ChatBot and a mobile app to monitor and control plant growth.
- **Tools**: YOLO, PyTorch, Kaggle, Roboflow, Power BI, Azure, Gemini 2.0 flash

BCE-vs-MSE-Evaluating-Loss-Impact-in-Conditional-Variational-Autoencoders

- A PyTorch-based Conditional Variational Autoencoder designed to study how different loss functions influence latent representation learning and image reconstruction quality.

Real-Time Violence Detection

- Developed a deep learning system for real-time violence detection using a hybrid MobileNetV2 and LSTM model.

Superstore Sales Analysis and Forecasting

- Analyzed the "Superstore Sales" dataset to derive insights for strategic decisions, using EDA, data preprocessing, and regression models (KNN, Random Forest, XGBoost,AdaBoost).

Technical Skills

- **Data Preparation & Analysis:** EDA and Data preprocessing.
- **Machine Learning & Deep Learning:** Supervised learning, Unsupervised learning, Image preprocessing and Computer Vision.
- **Mathematical Skills:** Probability and Statistics, Linear Algebra,and Optimization.

Familiar

R (Programming Language) ,Java,OOP, Microsoft Power BI, SQL and Database Management.

Awards and Competitions:

- 5th Place – 7th Olympiad of Computers & Information,Damanhour University – "The Role of AI in Supporting Government Institutions"-2025
- 3rd Place Winner at "Port Said Engineering Day 2025" for the Muthmir smart agriculture project.
- Secured 3'rd place in graduation project competition organized by IEEE Mansoura.
- First Place – 12th Student Conference for Research & Innovation, Faculty of Science, Alexandria University

Languages:

- Arabic (Native)
- English (Intermediate Level)