

# Nour-Eldeen Anwar Mohamed

Alexandria, Egypt | +20 102 4468369 | nourel1515@gmail.com

LinkedIn: <https://www.linkedin.com/in/nour-eldeen-anwar-125743233/>

GitHub: <https://github.com/Nouranwar>

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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.

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## 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.AI-Certificate

### Google Data Analytics-Certificate

### Data Analysis (egFWD)-Certificate

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## 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: Assessing Loss Function Effects 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).
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## 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.

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## 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 3rd 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)