

# Maya Elmosalamy

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## About

Aspiring AI undergraduate with hands-on experience in computer vision, NLP, and predictive modeling. Eager to contribute to real-world AI systems in industrial automation.

[Github](#) [LinkedIn](#)

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## Education

**Misr International University (MIU) | Cairo, Egypt**  
*Bachelor of Science in Computer Science | Expected 2026*

**GPA:** 3.52

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## Experience

**Dell Technologies Summer Academy Intern | August 2025 - September 2025**

- Completed 160+ hours of expert training in Agile, SWE, ISM, Design Thinking, AI, and cybersecurity.
  - Designed a business and technical solution to combat online misinformation as a capstone team project.
  - Gained practical insight through professional job shadowing and an on-premise data center tour.
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## Certificates

- **Artificial Intelligence Fundamentals Program – IBM SkillsBuild**
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## Projects

### Lane Detection using Deep Learning on TuSimple Dataset

• Misr International University –Advanced AI Project

04/2025 - 05/2025

- Developed a lane segmentation system for autonomous driving applications using PyTorch and CNNs (U-Net, FastSCNN, ENet) trained on the TuSimple dataset.
- Achieved high-performance metrics (IoU, F1-Score) with U-Net by implementing a custom data pipeline, weighted loss functions, and rigorous evaluation.

### NLP Fake News Detection using Machine & Deep Learning

• Misr International University – Data Science Project

04/2025 - 05/2025

- Developed a bilingual fake news classifier using ML (SVM, XGBoost) and DL (BERT, BiLSTM) models, processing 600K+ English and Arabic articles with custom NLP pipelines.
- Achieved 94% accuracy with a tuned SVM model, outperforming other complex architectures.

### Housing Prices Prediction - Machine Learning

02/2025 - 03/2025

- Built and optimized predictive models on a Kaggle housing dataset using regression techniques, enhancing performance via GridSearchCV and cross-validation.

## Curve and Lane Detection - Image Processing

11/2024 - 12/2024

- Engineered a lane detection system for autonomous navigation by implementing Hough Transform and custom Region of Interest (ROI) algorithms in Python.

## Credit Card Approval Prediction - AI

11/2024 - 12/2024

- Cleaned and preprocessed applicant data; applied genetic algorithms for feature selection.
- Trained Decision Tree, KNN, and MLP classifiers; achieved 75% prediction accuracy.

## Healthcare Gemini Chatbot System - Software Engineering

09/2024 - 12/2024

- Built a full-stack medical chatbot (JavaScript, PHP, Python, MySQL) for automated patient interactions and appointment booking.

## E-Commerce Clothing Website

03/2024 - 05/2024

- Built a responsive MERN Stack e-commerce site with user authentication and full order management capabilities.

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### Skills

- Programming:** Python, JavaScript, C++, Java, C#, PHP
- ML Libraries:** PyTorch, Scikit-learn, Transformers, TensorFlow (basic)
- Tools:** Google Colab, VS Code, Git, MySQL, OpenCV
- Web/Full-Stack:** MERN Stack, REST APIs, PHP
- Soft Skills:** Leadership, Communication, Fast Learner, Time Management, Documentation, Research

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### Languages

- Arabic (Native)
- English (Fluent)
- German (B1 Intermediate)

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### Extracurricular Activities

- University Admissions Team Member** | MIU | 2025– Present
- Competitor** | Egyptian Collegiate Programming Contest (ECPC) | 2025
- Head of Media** | Tuners Club MIU | 2023–2024
- Head of Media** | ACPC Club MIU | 2024–2025
- Volunteer** | RiseUp Summit & Various Charities | 2019 – Present
- Volunteer Usher** | University Events | 2023 – Present