Maya Elmosalamy

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About

AI undergraduate skilled in computer vision, NLP, and predictive modeling. Passionate about deploying ML solutions for industrial automation. Projects on [Github](#) and [LinkedIn](#).

Education

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

GPA: 3.52

Experience

Dell Technologies Summer Academy Intern | August 2025 - September 2025
- Completed 160+ hours of expert training in Agile, SWE, AI, and cybersecurity.
- Designed a capstone solution to combat online misinformation from both business and technical perspectives.
- Gained industry exposure via professional shadowing and an on-premise data center tour.

Certificates

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

Projects

Lane Detection using Deep Learning on TuSimple Dataset
- Developed a lane segmentation system for autonomous driving using PyTorch, comparing CNN architectures (U-Net, FastSCNN, ENet) on the TuSimple dataset; achieved high performance with U-Net via a custom data pipeline and weighted loss functions.

NLP Fake News Detection using Machine & Deep Learning
- Engineered a bilingual (EN/AR) fake news classifier using ML (SVM, XGBoost) and DL (BERT, BiLSTM) models on a 600K+ article dataset; achieved 94% accuracy with a tuned SVM model.

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

Skills

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

Languages

Arabic (Native), **English** (Fluent), **German** (B1 Intermediate)

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*