# Mahmoud Elbalat

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## EDUCATION

**Menoufia University.**, Menoufia | July 2025 | Bachelor's Degree in
Computer Science and Engineering

## INTERNSHIPS/JOBS

**Machine Learning Intern, Poornima University, India, July 2024 – September 2024**
- Developed a predictive model using Random Forest to forecast customer churn with 85% accuracy.
- Gained exposure to reinforcement learning algorithms by working on various models.
- Developed, trained, and evaluated machine learning models to improve predictive accuracy.
- Analyzed datasets to extract insights and optimize model performance.
- Applied theoretical knowledge to practical implementations, enhancing understanding of machine learning techniques.

**AI & Machine Learning Diploma, Amit Learning, June 2023 – August 2023**
- Studied various AI topics, including Python programming, Data Science, Machine Learning, Deep Learning, Computer Vision and NLP.
- Developed hands-on applications and projects for each topic, working with large datasets.
- Gained practical experience in implementing AI models and techniques across different domains.
- Applied machine learning and deep learning algorithms to real-world problems.
- Explored MLOps practices to streamline model deployment and monitoring.

## SKILLS

**Programming:** C++, Python, Java, SQL, Assembly
**AI/ML Tools:** OpenCV, PyTorch, TensorFlow, YOLO
**Languages:** Arabic (Fluent), English (Full Professional Proficiency)

## PROJECTS

**Smart Irrigation System (Graduation Project)**
- Trained a machine learning model to predict irrigation needs based on soil moisture and weather data.
- Optimized water efficiency by enabling AI-driven automated irrigation decisions.
- Achieved 30% water savings while maintaining crop health in test simulations.

**ChatBot**
- Developed a conversational AI chatbot for a company to automate customer interactions.
- Implemented NLP techniques (e.g., intent recognition, entity extraction) using Python and libraries like NLTK.
- Integrated with company website for seamless user access.
- Improved customer response time by 40% and reduced manual queries by 25%.

## EXTRACURRICULAR ACTIVITIES

**OC Member, IEEE, October 2023 - Present**
- Organize and coordinate events, workshops, and initiatives to engage the IEEE community.

**Global Volunteer, AIESEC, March 2024 – November 2024**
- Traveled to India and contributed to international projects, collaborating with diverse teams to drive social impact.

## CERTIFICATIONS

ML internship (Poornima University)   |     2024
AI&ML (AMIT Learning)    | 2025