

Mohab Saber

AI & Machine Learning Engineer

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Summary

Highly motivated fourth-year Machine Learning Engineering student with a strong foundation in Artificial Intelligence, seeking opportunities to enhance skills and contribute to impactful projects.

Education

Misr International University (MIU), Bachelor's Degree in Machine Learning Engineering (Very Good) 2021 – 2025

Work Experience

IT Intern, Gama Construction Aug 2024 – Sept 2024

- Practised troubleshooting network issues and contributed to real-world applications used by employees.
- Interact with the IT team and other collaborating teams.
- Gained hands-on experience in managing network infrastructure and providing support for day-to-day operations.

IT Intern, Four Brothers for Car Trade Aug 2023 – Sept 2023

- Gained hands-on experience in IT management and collaboration within an office environment.
- Gained practical knowledge in office networking, data management, and IT service management.
- Conducted system updates and maintenance, improving overall efficiency and reliability.

Intern, CIB "Future Employee of Digital Era" Jul 2022 – Aug 2022

- Learned fundamentals of cybersecurity, artificial intelligence, and soft skills.
- Participated in workshops and training sessions to develop soft skills such as communication and teamwork.
- Contributed to research and project work on integrating AI solutions in business processes.

Projects

Graduation Project – Sonocardia: AI-Powered Digital Stethoscope for Heart Disease Detection Nov 2024 – Jun 2025

- Developed a mobile application to record and analyze heart sounds using a modified stethoscope integrated with machine learning models.
- Designed and trained deep learning algorithms to detect abnormal heart sounds, focusing on early identification of cardiovascular diseases.
- Implemented real-time alert features to contact doctors, ambulances, or registered relatives in case of emergencies.

Smart Plant Monitoring System – IoT, Mobile App, AI, Image Processing Feb 2025 – May 2025

- Engineered an integrated solution combining sensor-based hardware, a mobile app, and AI to monitor plant health in real-time.
- Built a custom hardware system with sensors to measure soil moisture, temperature, humidity, and light intensity.
- Developed a mobile application to display live sensor readings and alert users of plant care requirements.
- Trained a computer vision model to identify and classify plant diseases from images captured via the app.

Text Extraction from Images Using Deep Learning Nov 2024 – Dec 2023

- Designed a custom CNN model and integrated deep learning-based OCR techniques for accurate text extraction from images.

Bitcoin Price Prediction Using Machine Learning Jan 2024 – Feb 2024

- Built and evaluated multiple machine learning models to predict Bitcoin prices.

- Wrote a research paper about the project and its results using Overleaf.
- Nursery Management System Website** Oct 2023 – Dec 2023
- Developed a website for a real nursery with scheduling, class enrollment, and an admin dashboard.
 - Utilized PHP, JavaScript, HTML, and CSS for development.
- E-commerce Website** Jan 2023 – Mar 2023
- Designed and developed a website for online clothing sales using Node.js, JavaScript, and MongoDB.

Skills

Programming Languages: C++, Java, JavaScript, Python, PHP

Web Development: HTML, CSS, Node.js, Express.js

Mobile App Development: Flutter(Dart)

Tools and Frameworks: Git, Overleaf, LaTeX, MongoDB, Postman, Wireshark, Orange, Cisco Packet Tracer, Microsoft Azure

Operating Systems: Linux, Ubuntu VM

Design: Adobe Photoshop, Microsoft Office

Deep Learning Libraries: NumPy, PyTorch, TensorFlow, Keras

MYSQL

Parallel computing and GPU optimization

Languages

Arabic: Native

English: Fluent

German: Reached Level B1

Courses

Udacity Data Analysis Track, C++ Bootcamp, Java OOP, Microsoft Data Engineer Course (Ministry of Communication and IT)

Publications

"Sum of Subsets and Maximum Sub-Arrays Sum Problem with Brute Force Approach" Jan 2024

"MLBTC Price Prediction Using Machine Learning" Feb 2024

Activities & Volunteering

Events Member, Institute of Electrical and Electronics Engineers (IEEE) Oct 2021 – Jun 2022

- Organized many events and classes for students.
- Contacted public speakers and brands to attend events.
- Interviewed applicants for the student activity.

Events Team Leader, Planos for Events Organizing Oct 2021 – Jun 2022

- Organized numerous events and open days for Egyptian local brands.
- Led a small team, guiding them in their tasks.