

Moamen Handak

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Professional Summary

A dedicated AI and mathematics enthusiast with a strong foundation in programming, machine learning, and mathematical modeling. Experienced in translating complex mathematical and AI concepts into clear, understandable content for learners of all levels. Skilled in developing educational resources and training programs to bridge the gap between theory and application in AI education.

Experience

AI Mathematics Curriculum Developer

Freelance / Personal Projects

Jan 2023 – Present

- Designed and implemented modular lesson plans integrating core math concepts with AI models such as neural networks and regression.
- Created visual and interactive Jupyter notebooks to demonstrate mathematical underpinnings of machine learning.
- Delivered workshops to undergraduate students introducing linear algebra, calculus, and probability in the context of AI.

Teaching Assistant – Intro to Machine Learning

University Project Role

Oct 2022 – May 2023

- Helped design assignments focused on supervised learning, data preprocessing, and evaluation metrics.
- Guided students through the mathematical concepts behind algorithms like logistic regression and k-means.
- Offered one-on-one mentoring for math-related programming challenges.

Skills

- Mathematics: Linear Algebra, Probability, Calculus, Discrete Math
- Programming: Python, R, MATLAB
- AI/ML: Scikit-learn, TensorFlow basics, Data preprocessing, Model evaluation
- Educational Tools: Jupyter Notebook, Google Colab, LaTeX, Overleaf
- Soft Skills: Public Speaking, Curriculum Design, Technical Writing

Education

Bachelor of Science in Computer Science *[Misr Higher Institute For Commerce Computers in El-Mansura]*

Expected Graduation: 2026

Relevant Coursework: Calculus I–III, Linear Algebra, Machine Learning, Data Structures, Probability, AI Fundamentals

Certifications

- Machine Learning – Stanford University (Coursera), 2024
- Mathematics for Machine Learning – Imperial College London (Coursera), 2024
- Effective Teaching Strategies for STEM – edX, 2023