

# Shahd Mostafa Farouk

## Data Scientist

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## Profile

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I am a Junior Data Scientist specializing in Machine Learning, with hands-on experience in training, evaluating, and optimizing machine learning models using Python and core ML libraries. I focus on supervised learning, improving model performance, and applying ML techniques to real-world problems.

## Education

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B.Sc. of Computers and Artificial Intelligence, Cairo University 9/2024 – 07/2027 | Giza, Egypt

- **Major:** Artificial Intelligence.
- **GPA:** 3.1

## Projects

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### Neural Network from Scratch – MNIST Dataset

- Implemented a customizable neural network using NumPy with manual backpropagation, softmax classification, and cross-entropy loss.
- Supported dynamic architecture configuration, activation function selection, mini-batch training, and early stopping.
- Achieved accurate handwritten digit classification and built an interactive visualization-based prediction system.

## Skills

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### Languages

- Arabic (Native).
- English (Excellent).
- French (Good).

### Technical Skills

- **Programming Languages:** C++, Python, Java.
- **Web Development:** HTML, CSS, JavaScript (basic).
- **Databases:** SQL Server.
- **Data Science:** Numpy, pandas, Matplotlib, Neural Network fundamentals.

### Tools

- VS2022.
- VS2026.
- VS Code.
- Pycharm.
- IntelliJ.
- Microsoft SQL Server.

## Courses

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Nov 2025 – Jul 2026: Data Science Track, Digital Egypt Pioneers Initiative (DEPI).

## Extracurricular Activities

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### Jul 2025 – Sep 2025: Data Science Track (DSC)

- Completed intensive training in Data Science, Machine Learning, and Deep Learning fundamentals.
- Worked on practical concepts related to data preprocessing and model evaluation.
- Earned a certificate upon successful completion of the program.

### Sep 2023 – Present: Team Projects & Assignments

- Collaborated effectively on academic projects using Git.
- Practiced teamwork, task distribution, and code reviews.