Aya Attia

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[LinkedIn Profile](#) | [GitHub Profile](#)

Summary

AI Engineer with expertise in Data Analysis, Machine Learning, Deep Learning, and Computer Vision. Skilled in using TensorFlow, Keras, PyCaret, and Scikit-learn to build and deploy AI solutions. Experienced with deep learning models and advanced techniques. Strong in performing data analysis and optimizing models for better performance. Proficient in web scraping, NLP, and data visualization with Python and Streamlit.

Education

- October – June 2025 **9-Month Diploma (ITI) Information Technology Institute**, (MCIT) Ministry of Communications and Information Technology, AI track, Mansoura Branch

- Sep 2020 – Jul 2024 **Bachelor of Computer and Information**
  Faculty of Computers and Information, Medical Informatics, Zagazig University
  GPA: 3.93 / 4

Internships

- **Digital Egypt Pioneers Initiative (DEPI) | Ministry of Communications and Information Technology | 2024**
  Completed an advanced training program focused on machine learning, data science methodologies, and industry best practices, and gained practical experience applying advanced machine learning techniques to real-world problems.
  Data Analysis Professional Nanodegree | Udacity, FWD | Jan 2023 – Feb 2023
  Learned how to clean, analyze, and visualize data using Python. Completed projects involving data wrangling, exploration, and drawing insights from real-world datasets.

Projects

- [**Handwritten Digit Classification using LSTM and ConvLSTM – MNIST Dataset**](#)
  Built LSTM and ConvLSTM models to classify MNIST handwritten digits using sequential and spatiotemporal features.

- [**Using Machine Learning algorithms on the Credit Score dataset**](#)
  Used a Decision Tree model to classify individuals by credit score after preprocessing and evaluation.

- [**Unsupervised Text Clustering with NLP and Machine Learning**](#)
  Worked on an NLP project using unsupervised learning to cluster and analyze text data. Focused on preprocessing (tokenization, stopword removal, vectorization), feature extraction (TF-IDF, embeddings), clustering (K-Means), and evaluation (silhouette score, Davies-Bouldin index).

- [**Web Scraping Projects**](#)
  Created Selenium web scrapers to collect titles, prices, ratings, and reviews from Amazon and Jumia for market analysis.

- **Crowdfunding console app using Python**
  Developed a Python console app for user registration, login, and project management with data stored in JSON files.

- **Build Your PyCaret Report**
  Automated model training and evaluation with PyCaret, boosting prediction accuracy by 20%.

- **Airbnb Listing EDA**
  Performed EDA on Chicago Airbnb data, cleaning and visualizing trends in pricing and bookings.

- **Automated Exploratory Data Analysis Tool**
  Built a Streamlit app to automate EDA, reducing analysis time by 50% with dynamic preprocessing and Visualization.

Technical Skills

- **Programming Languages:** Python, C++, C, SQL
- **Machine Learning & Deep Learning:** Scikit-learn (sklearn), TensorFlow, Keras, PyCaret, LSTM, ConvLSTM
- **Data Science & Analysis:** Data Preprocessing, Feature Engineering, Model Evaluation, Hyperparameter Tuning
- **Web Scraping & Automation:** Selenium
- **Tools & Frameworks:** Streamlit, Jupyter Notebooks, Git
- **Data Visualization:** Matplotlib, Seaborn
- **Natural Language Processing (NLP):** Text Processing, Tokenization, Word Embeddings

Courses

- **Unsupervised Learning Foundation**
- **Supervised Learning Foundation**
- **Exploratory Data Analysis**
- **Python Programming Master**

Certifications

DEPI Certificate
Supervised Machine Learning: Regression and Classification | Coursera
Data Analysis Professional Nanodegree

Personal Skills:

Problem-solving | Continuous Learning   Communication | Adaptability

Teamwork | Time Management   Attention to Detail | Collaboration

Languages   **Arabic**: Native proficiency | **English**: B2