

Aya Attia

Machine Learning Engineer

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Summary

Junior Machine Learning Engineer with expertise in data analysis, predictive modeling, and Python programming. Skilled in Scikit-learn, TensorFlow, and PyCaret, with experience in model development and optimization. Proven ability to lead teams and drive innovation through machine learning solutions.

Education

- October – June 2025 9-Month Diploma (ITI) Information Technology Institute, (MCIT) Ministry of Communications and Information Technology, Artificial Intelligence and Machine Learning track, Mansoura Branch.
- Bachelor of Computers and Information Sep 2020 – Jul 2024
Faculty of Computers and Information, Medical Informatics, Zagazig University
GPA: 3.93 / 4
- Data Analysis Professional Nanodegree | Jan 2023 – Feb 2023
Udacity

Training

- 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.

Projects

- [Customer Segmentation for E-commerce Personalization](#) | Electro Pi | Sep 2023
Applied KMeans clustering to segment customers based on purchasing behavior, Conducted data preparation and feature engineering for enhanced model accuracy, and Optimized personalization and recommendation strategies based on segmentation insights.
- [Build Your Own PyCaret](#) | Electro Pi | Sep 2023 – Oct 2023
Automated end-to-end model training, validation, and evaluation using PyCaret and Implemented model comparison to select the best-performing model, improving prediction accuracy by 20%.
- [Airbnb Listing EDA](#) | Electro Pi | Aug 2023
Conducted exploratory data analysis (EDA) on Chicago Airbnb listings to uncover trends in pricing and booking behavior and Executed data cleaning, transformation, and visualization using Python (Pandas, Matplotlib, Seaborn).
- [Automated Exploratory Data Analysis Tool](#) | Electro Pi | Aug 2023
Developed an automated EDA tool using Streamlit in Python, reducing analysis time by 50%. Implemented dynamic data preprocessing and interactive visualizations.
- [Investigate a Medical Appointment Dataset](#) | Udacity | Feb 2023
Analyzed medical appointment data from Brazil to identify patterns affecting appointment no-shows. Conducted data cleaning, exploratory analysis, and statistical assessment using Python (Pandas, NumPy).
- [Explore US Bikeshare Data](#) | Udacity | Jan 2023
Performed EDA on bike share systems in Chicago, New York City, and Washington. Utilized Python for data filtering, aggregation, and visualization to identify usage patterns.

Skills

Programming Languages: Python, SQL

Machine Learning: Scikit-learn, PyCaret, TensorFlow

Data Analysis & Visualization: Pandas, NumPy, Matplotlib, Seaborn, Power BI, Tableau, Excel

Tools & Frameworks: Jupyter Notebook, Visual Studio Code, Streamlit

Personal Skills: Problem-solving, Communication, Adaptability, Time Management, Attention to Detail.

Languages Arabic: Native proficiency | English: professional proficiency