

# Ezz Eldin Ahmed

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## PROFESSIONAL SUMMARY

Third-year Statistics student specializing in data-driven research, machine learning, and predictive modeling, with a focus on delivering rigorous, impactful solutions.

## EDUCATION

**Bachelor of Statistics** 10/2022 – present  
Faculty of Economics and Political Science - Cairo University

- GPA: 3.763/4.0
- Recipient of Dr. Ali El-Din Hilal Award for Academic Excellence, [2025]

## SKILLS

<b>Programming &amp; Data Tools</b> Python, R, SQL, Git, Excel (Power Query, Power Pivot, DAX).	<b>Statistical &amp; Machine Learning Modeling</b> Linear Regression, Econometric Modeling, Time Series, Logistic Regression, Xgboost, Scikit-learn.
<b>Data Visualization</b> Matplotlib, Seaborn, Plotly, ggplot2.	<b>Web Development &amp; Tools</b> Streamlit, Flask, Django, Supabase.

## PROJECTS

**AI-Powered Portfolio Platform** 03/2025 – 06/2025

- Designed and deployed a custom AI assistant using LLM APIs and rule-based logic.
- Built and hosted ML-powered Streamlit apps including a semi-automated statistical modeling toolkit with linear/logistic regression and time series modules.
- Integrated image generation via text prompts using external generative models (Pollinations API) and fallback routing logic for robustness.

**Fixed Effects Panel Data Analysis of Spanish Dairy Farms** 05/2025 – 05/2025

- Analyzed panel data (247 farms, 1,482 obs) using Cobb-Douglas and Translog models in R.
- Identified key drivers (Cows: 0.66%, Feed: 0.38%,  $p < 0.001$ ) with increasing returns to scale ( $RTS = 1.11$ ).
- Ensured robustness with clustered errors and log transformation, achieving ~80% adjusted  $R^2$ .

**Time Series Analysis of the Volatility Index** 04/2025 – 05/2025

- Applied AR(1) and cubic models to daily VIX data (1990–2025) in R, with 6.67% MAPE and confirmed stationarity ( $p = 0.188$ ).
- Forecasted VIX levels (19.3–28.65) through 2034, validated with Box-Ljung and Box-Pierce tests.

## ORGANIZATIONS

**EMAM Organization for Development and Culture** 10/2024 – 06/2025  
EMAM Research Center Manager | DataCamp Scholarship Coordinator

- Coordinated scholarship program to provide DataCamp data science courses, enhancing analytical skills for 1000+ participants.
- Managed application reviews and candidate selection, ensuring fair and efficient allocation of educational resources.
- Built a Flask-based web platform for a student research center to manage user accounts, display grades, and support role-based access using Supabase as the backend.

**CERTIFICATES**

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**Data Scientist in Python** [↗](#)  
(DataCamp, 26 hours, completed June, 2025)

**Associate Data Scientist in Python** [↗](#)  
(DataCamp, 90 hours, completed September, 2024)

**Data Analysis with Excel Power Tools** [↗](#)  
(DataCamp, 10 hours, completed September, 2024)