Ezz Eldin Ahmed

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github.com/Ezzio11   🔗 ezzio.vercel.app

PROFESSIONAL SUMMARY

Senior 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: 3.715/4.0
- Recipient of Dr. Ali El-Din Hilal Award for Academic Excellence, [2025]

SKILLS

Programming & Data Tools
Python, R, SQL, Git, Excel (Power Query, Power Pivot, DAX), SPSS.

Data Visualization
Matplotlib, Seaborn, Plotly, ggplot2.

Statistical & Machine Learning Modeling
Linear Regression, Econometric Modeling, Time Series, Logistic Regression, Xgboost, Sci-kit learn, Neural Networks.

Web Development & Tools
Streamlit, Flask, Django, Supabase.

PROJECTS

Personal AI Portfolio Platform with Publishing Space (MSTAG) ↗   03/2025 – Present
- Built a personal platform to showcase data science, ML, and research projects, powered by Supabase, Django, and Vercel.
- Designed and deployed multiple interactive Streamlit apps, including an auto-modeling toolkit for linear/logistic regression and time series analysis.
- Integrated LLM APIs and prompt-routing logic to deliver custom AI responses, and added text-to-image generation using fallback generative APIs.
- Launched **MSTAG**, a creative publishing space within the platform to host projects and articles, complete with role-based access and a full-stack comment system.
- Tracked platform analytics (e.g., user behavior, bounce rate) to iterate on UX and drive engagement.

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 – Present

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

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

CAPMAS – Central Agency for Public Mobilization and Statistics
Certified 5-day training | Completed July 2025
- Learned SPSS fundamentals, survey design, and economic census methodology
- Gained hands-on experience with Egypt's national enumeration systems and CAPMAS data portal