Ezz Eldin Ahmed

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github.com/Ezzio11   🔗 ezziostat.streamlit.app

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

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

Statistical & Machine Learning Modeling
Linear Regression, Econometric Modeling, Time Series, Logistic Regression, Xgboost, Scikit-learn.

Data Visualization
Matplotlib, Seaborn, Plotly, ggplot2.

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

PROJECTS

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.

Statistical Modeling of Blood Pressure ↗   12/2024 – 01/2025
- Built multiple linear regression models in R on 20 hypertensive patients, identifying key predictors (Age, BSA, Pulse) and achieving adjusted $R^2 = 90.1\%$.
- Addressed multicollinearity (removed Weight), validated models via ANOVA and diagnostic plots.

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

Data Scientist in Python ⬀
(DataCamp, 26 hours, completed June, 2025)

Data Analysis with Excel Power Tools ⬀
(DataCamp, 10 hours, completed September, 2024)

Associate Data Scientist in Python ⬀
(DataCamp, 90 hours, completed September, 2024)