

Ismael Ahmed Ahmed Ibrahim

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LinkedIn: <https://www.linkedin.com/in/ismael-ahmed-260092171>

GitHub: <https://github.com/ismaelstat> (Statistical & Data Science Projects)

Location: Alexandria, Egypt

Headline

Lecturer Assistant | Statistical Consultant | Bayesian Modeling & AI Validation | Research Expert

Summary

Statistical Consultant with 20+ years of experience in applied statistics, Bayesian modeling, and data validation.

I specialize in reviewing and validating statistical and AI-driven models, ensuring methodological rigor and accuracy across healthcare, finance, and academic research.

Skilled in Python, R, SPSS, and Power BI, with a strong focus on predictive modeling, model evaluation, and data-driven decision support.

Lecturer Assistant

Damanhur University, Egypt — 2019–Present

- Teach undergraduate and postgraduate courses in statistics and data visualization, helping students develop strong foundational knowledge and practical skills.
- Assist in syllabus development and ensure content aligns with industry tools and academic standards.
- Guide students to research projects and provide academic support during office hours.

Education

- Ph.D. in Applied Statistics – Tanta University (*in progress*)
- Research Focus “Combining Dynamic Bayesian Regression with Variable Shrinkage Techniques.”
- **M.Sc. in Applied Statistics** – Damanhur University (2013–2019)
- Thesis: "Criteria of Determining the Optimal Sample Size in Structural Equation Models."
- **B.Sc. in Statistics** – Alexandria University (2004)
- Graduated with Honors (Very Good with Honors)

Skills

- Data Analysis: Regression, SEM, Bayesian Methods, GLMs, Hypothesis Testing, Machine Learning
- Data Wrangling & Exploratory Data Analysis (EDA)
- Programming & Data Tools: Python (pandas, scikit-learn), R, SPSS, Smart-PLS, SQL
- Data Visualization: Power BI, Excel (Advanced)
- Soft Skills: Collaboration, Adaptability, Mentorship, Lifelong Learning

Certifications

- Google Data Analytics Professional Certificate – Google – 2025
- Python for Data Science, AI & Development – IBM – Mar 2025

- Databases & SQL for Data Science with Python – IBM – Oct 2024
- From Excel to Power BI – Knowledge Accelerators – Sep 2024
- Bayesian Statistics – University of California, Santa Cruz – May 2025
- Statistics with Python Specialization – University of Michigan (Coursera) – Sep 2025

Teaching Experience.

- Improved model performance and validated AI-driven analytics using Bayesian statistical methods.
- Core Statistics & Data Analysis: Descriptive & Inferential Statistics, Regression Analysis, Generalized Linear Models, Bayesian Statistics, Probability & Inference, Experimental Design.
- Mathematics & Applied Sciences: Business Mathematics, Quantitative Business Analysis, Linear Algebra, Calculus.
- Operations Research & Optimization: Linear Programming (Simplex Method), Game Theory (Two-Person Zero-Sum, Mixed Strategies), Project Scheduling Techniques (PERT & CPM).

Languages Proficiency.

- Arabic: Native
- English: Fluent