

Esraa Yaser Gaber Elzaghal | Data scientist

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Data Scientist | AI & Data Analytics Specialist | Predictive Modeling Expert

Extensive expertise in data science and artificial intelligence, with a strong focus on transforming complex datasets into actionable insights. Skilled in building predictive models, uncovering behavioral patterns, and designing scalable data pipelines using tools such as Python, SQL, Pandas, NumPy, Scikit-learn, TensorFlow, Power BI, and Excel. Proficient in both structured and unstructured data processing, exploratory data analysis, and performance-driven reporting.

Hands-on experience delivering real-world projects through freelance work and technical initiatives, including participation in Egypt's Digital Pioneers program. Strong background in natural language processing, web scraping, and KPI extraction. Capable of developing interactive dashboards and data-driven reports to support business strategy and operational decisions.

Continuously advancing in the data science domain through applied learning, market analysis projects, and adoption of cutting-edge machine learning and AI technologies to deliver measurable business value.

Skills

- Data Analysis
- Machine Learning
- Deep Learning
- Predictive Analytics
- Statistical Modeling
- NLP
- EDA
- Data Cleaning
- Feature Engineering
- Model Evaluation
- Model Deployment
- Web Scraping
- Python
- SQL
- Pandas
- NumPy
- Scikit-learn
- TensorFlow
- Matplotlib
- Seaborn
- Plotly
- Power BI
- Excel
- Tableau

- Analytical Thinking
- Problem Solving
- Critical Thinking
- Time Management
- Business Acumen
- Jupyter Notebook
- Google Colab
- Git & GitHub
- VS Code
- MySQL

Experience

Oracle University – AI Track (Self-Study)

Jul 2025 – Present

Self-paced training program focused on artificial intelligence, including supervised learning, data preprocessing, and model evaluation using Python.

ITIDA GIGS – AI & Data Projects

Jun 2025 – Present

Working on real-life data analysis and AI tasks within team-based freelance-style environments.

CodeAlpha – Data Science Intern

Jun 2025 – Jul 2025

Delivered hands-on projects using Python, data visualization tools, and predictive modeling; work published on GitHub.

Digital Egypt Pioneers – Data Science Track

Nov 2023 – May 2024

Participated in intensive training focused on data analysis, machine learning, and AI applications across industries.

IBM SkillsBuild – AI & Data Foundation

Jul 2023 – Dec 2023

Completed certified tracks in data science fundamentals, business intelligence, and applied machine learning.

CodSoft – Data Science Intern

Jul 2023 – Sep 2023

Executed tasks involving model development, EDA, web scraping, and visualization for real datasets.

Education

Bachelor of Science – Computer Science

Faculty of Science, Tanta University

2023 – 2027 (*Expected*)

Certifications

- **Freelance Project Completion** – ITIDA GIGs Platform (2024 – Present)
 - **Digital Egypt Pioneers – Data Science Track**
Ministry of Communications & IT (Nov 2023 – May 2024)
 - **Data Science Internship** – CodSoft (Mar 2025 – Apr 2025)
 - **Data Science Internship** – Code Alpha (Jun 2025 – Jul 2025)
 - **Artificial Intelligence Program** – IBM SkillsBuild (Online, Completed 2024)
 - **UNICEF "Meshwary" Program** (On-site, Jan 29 – Feb 19, 2021)
 - **Modern Leadership Skills** – STJEGYPT (Issued: Apr 9, 2025)
 - **Communication Skills** – STJEGYPT (Issued: Apr 8, 2025)
 - **Time Management & Organization** – STJEGYPT (Issued: Apr 13, 2025)
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Projects

Unemployment Analysis in India (CodeAlpha Internship)

Created a data visualization dashboard to analyze unemployment trends across Indian regions.

GitHub: https://github.com/esraayaser114/CodeAlpha_Tasks/tree/Task-1

Sales Forecasting & Demand Prediction

Led the modeling process and built an interactive dashboard to forecast sales trends and predict product demand.

GitHub: https://github.com/AbdallahmanOthman01/AIS4_S1_3

Languages

- Arabic: Native
- English: B1 (Intermediate)