

Nour El-Din Hesham Abdel Salam

Data Scientist

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Summary

Junior Data Scientist with a BSc in Computer Science and experience in ML model development, Flask deployment, and data visualization using Power BI. Proficient in Python, Scikit-learn, SQL, and advanced Excel (PivotTables, VLOOKUP, XLOOKUP, INDEX).

Education

Bachelor of Science in Computer Science - Assiut University, Egypt
Sep 2021 – Jun 2025 | GPA: 3.1 / 4.0

Experience

Data Analyst Intern — Truvian Intelligence

Remote | July 2025 – August 2025

- Completed task-based training focused on business data analysis using Excel and SQL. Built automated Excel dashboards to track KPIs and generate reports from raw data. Wrote SQL queries to clean, filter, and aggregate operational datasets for insights.

Freelance Data Analyst — Power BI Business Analysis Dashboard

Remote | November 2024 – December 2024

- Designed interactive dashboards using DAX to visualize KPIs, reducing report turnaround time by 40%. Delivered actionable HR and Sales insights, improving decision-making speed by 25%.

Technical Projects

RETAIL SALES ANALYTICS DASHBOARD

Truvian Intelligence | July 2025

- Built a Power BI dashboard using star schema data to analyze sales, stores and branches, categories and products, customer segments, and campaign ROI. Created DAX measures and interactive visuals (bar, line, pie, map) for actionable business insights.

BOARD RECOMMENDATIONS DASHBOARD

Truvian Intelligence | July 2025

- Developed a professional Excel dashboard using XLOOKUP, pivot tables, and conditional formatting to monitor board recommendations and support data-driven decisions

CUSTOMER CHURN PREDICTION

Capstone Project | Digital Egypt Pioneers Initiative | May 2025

- Built a LightGBM model on 500K+ customer records and achieved an AUC of 94%. Integrated the model into a FastAPI service with a MySQL backend, using MLflow for experiment tracking.

AI-POWERED X-RAY CLASSIFICATION PLATFORM

Graduation Project | Assiut University | May 2025

- Fine-tuned DenseNet on 14K+ chest X-ray images (7-class classification). Integrated anomaly detection using an auto encoder and connected outputs to a large language model (LLM) for AI-assisted diagnosis. Launched a multi-platform solution using Flask (backend), Flutter (mobile), and React (web) for AI-powered diagnosis.

HEART DISEASE PREDICTION SYSTEM

Assiut University | December 2024

- Engineered an ensemble model (Logistic Regression, Random Forest, XGBoost) with 97.6% accuracy. Developed a Flask-based web app allowing users to input health metrics and receive real-time predictions.

Internships

Data Science Intern, Digital Egypt Pioneers Initiative (DEPI)

Remote | Oct 2024 – May 2025

- Built ML pipelines, cutting preprocessing time by 30%. Implemented 3 predictive models using Flask API to enable real-time inference. Led a capstone project that achieved 94% model accuracy and presented findings to program stakeholders.

Skills

Machine Learning: Logistic Regression, Random Forest, XGBoost, Linear Regression, K-Means, PCA

Deep Learning: Neural Networks, CNNs, Object Detection (TensorFlow, PyTorch)

NLP: TF-IDF, Sentiment Analysis, Text Preprocessing

Deployment: Flask, MLflow

Data Analysis & Visualization: Pandas, NumPy, Seaborn, Matplotlib, Excel, Power BI

Programming: Python, SQL, Java, C++

Tools: GitHub, Jupyter Notebook

Soft Skills: Team Leadership, Communication, Collaboration, Analytical Thinking, Attention to Detail

Leadership & Certifications

Leadership Roles:

- **Team Lead** – DEPI Capstone Project (Churn Prediction)
- **Team Lead** – Graduation Project (AI-Based X-Ray Diagnosis)

Certifications:

- Data Analytics Bootcamp – EYouth (2025)
- Database Fundamentals – ITI (2023)
- Bioinformatics – Syndicate of Scientific Professions (Jan 2023)

Languages

Arabic: Native, **English:** Intermediate