Osama Hamdy Othman

Senior Data Scientist | Microsoft Power BI Certified (verify here)

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Career Objective

As a seasoned data scientist with more than four years of hands-on experience in designing and deploying intricate machine learning models and end-to-end pipelines, my career objective is to continue pushing the boundaries of data-driven innovation. I aspire to leverage my deep understanding of statistical analysis, ML algorithms, and programming skills to contribute effectively to a dynamic team focused on solving complex challenges. I am eager to collaborate on projects that demand creativity, strategic thinking, and a strong commitment to delivering actionable insights from data. With a proven track record of translating business requirements into successful machine learning solutions, I am dedicated to refining my expertise and staying at the forefront of this ever-evolving field to drive meaningful impact and growth.

Education

Oct 2019 – Jul 2020	**Data Science Diploma, Information Technology Institute, Smart Village - (1st ranked student)** Major: **Data Science**
Oct 2013 – July 2017	**BSc. of Petroleum Engineering, Faculty of Petroleum Engineering, Suez University.** GPA: 3.17 Graduation Project Grade: Excellent.

Professional Experience

March 2023 - Present	**Senior Data Scientist** – Giza Systems Working on a major project focused on developing an AI platform tailored for crime analysis. This innovative platform employs Graph Analysis techniques to dissect intricate crime patterns and forecast crime rates. We aim to empower decision-makers to strategically optimize the distribution of security patrols, ensuring maximum coverage and efficacy in crime prevention efforts.
Aug 2020 – March 2023	**Data Scientist** (Spatial Data Science, GeoAI) – Esri North Africa As a member of market leader company in the GIS field for more than two years, I have participated in many major national projects working with data of very high confidentiality to help decision makers manage their assets, workflows, and workforce. My role encompassed the entire data lifecycle from **database management**, **advanced querying** and **wrangling** to **generating comprehensive reports**, **impactful visualizations** and providing tailored **information models** for stakeholders. Some of these projects included:

- Egyptian Ministry of Communication and Information Technology - Hayah Karima Portal
- Egyptian Ministry of Education – Geoportal
- Egyptian Ministry of Defense – Air Forces
- Egyptian Ministry of Defense – Survey Department
- Information Decision Support Center (Prime Ministry) - IDSC Portal

Prior Work Experiences:

Mar 2018 - May 2019	**Offshore Drilling engineer** – ADES International Extra duties:

- On Job Training (OJT) instructor
- Sea survival coach

July 2017 - Mar 2018	**Marketing Specialist** – TeePlus
July 2016 - Oct 2016	**Social Media Marketing Specialist** – 1UNi – Malaysia (Remote – Part-time)

Skills

Technical	**ML/AI:** Supervised, Unsupervised, Timeseries, Neural Networks, NLP, Transformers, LLMs, RAG. **Data Engineering / Big Data Concepts:** Apache Kafka, Apache Spark, Apache Hadoop **Programming Languages:** Python, R, SAS, Java, Bash Scripting. **Visualization Tools:** Power BI (Microsoft-Certified), Excel, ArcGIS Insights, Dash Plotly. **Databases:** SQL, Analytical SQL, PL/SQL, Arango, SSRS, Enterprise Geodatabase. **Administration:** Red Hat Admin1.
Personal	Communication Presentation Teamwork Leadership
Languages	Arabic – Native English – Advanced

Certificates

2024	▪ Introduction to Machine Learning in Production – Coursera ▪ Developing LLM Applications with LangChain – DataCamp ▪ Intermediate Deep Learning with PyTorch – DataCamp ▪ Introduction to Deep Learning with PyTorch - DataCamp
2023	▪ Linear Algebra for Machine Learning and Data Science - Coursera ▪ Natural Language Processing with Classification and Vector Spaces – Coursera ▪ +20 various Datacamp courses.
2022	▪ Using Python to Access Web Data – Coursera ▪ Python Data Structures – Coursera ▪ Various Esri Certificates.
2021	▪ Programming for Everybody (Getting Started with Python) – Coursera
2019	▪ Data Analyst for Enterprise – Udacity Nanodegree

*References are furnished upon request