Noureldin Mohamed

Data Scientist

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Profile

Passionate about Data Science and Software Development, I'm driven by curiosity and a love for innovation. With a strong interest in leveraging AI for problem-solving, I demonstrate dedication to continuous learning and growth in these dynamic fields.

Education

University of Greenwich	2017 – 2022
• Bachelor of Computer Science	United Kingdom
Modern Science and Arts University	2017 – 2022
• Bachelor of Computer Science	Egypt

Experience

DataScience Middle East
Mar 2025 - Present

Software Developer — Cairo, Egypt

- Process, clean, and analyze large datasets using SAS, ensuring data quality and consistency.
- Perform data preparation, transformation, and validation to support analytical and reporting needs.
- Apply data analysis techniques to extract insights, identify trends, and support business decisions.
- Develop and optimize SAS scripts for data processing, automation, and reporting.
- Collaborate with data analysts and business teams to enhance data-driven decision-making.

Madkour
Apr 2023 - Dec 2024

Junior Full-Stack Developer — Cairo, Egypt

- Junior Full Stack Developer in a newly established department, tasked with crafting and deploying a comprehensive organizational system using ERPNext and Frappe frameworks.
- Responsibilities encompass diverse aspects of software development and system integration.
- Valuable experience gained in working on electricity and water meters, utilizing ERPNext, Node-RED, and ThingsBoard for efficient data management and monitoring.
- Contributions to seamless integration of systems, enhancing functionality and usability.
- Under the guidance of my manager, led the development of a mobile payment application, enabling users to conveniently recharge their electricity and water meters directly from their smartphones.

ERPCloud Systems
Nov 2022 - Apr 2023

Backend Developer — Cairo, Egypt

- Generated SQL Reports for different clients across ERPNext's huge database.
- Increase the performance of some of previous reports using SQL.
- Translated ERPNext processes into API endpoints for the first ERPNext mobile app (NextApp) and achieved the tight deadline of the first release.
- Customized the behavior of different modules on the client and server side of ERPNext.

Diplomas

Certified Data Scientist Professional

Epsilon AI | Nov 2022 - Oct 2023 | Cairo, Egypt

- Completed an extensive data science diploma covering Python programming, web scraping, databases, mathematics, exploratory data analysis, data visualization, machine learning, software engineering, and career development.
- Applied knowledge through real-world projects and a capstone project, demonstrating hands-on expertise in each module.

Certificates

- **Android | Instant Software Solutions** **(2020)**
  Successfully completed the Android course supported by UFCI.
- **Certified Data Scientist Professional | Epsilon AI** **(2022 - 2023)**
  Successfully met the requirements to be recognized as a Certified Data Scientist Professional.

Languages

- **English:** Very Good
- **Arabic:** Native

Technical Skills

- **Programming Languages:** Python, C#, C++, Java, SQL, JavaScript
- **Data Analysis:** Pandas, NumPy, Plotly, Seaborn, Matplotlib
- **Databases:** MariaDB, PostgreSQL, MongoDB
- **Business Intelligence:** Power BI, Data Visualization, Reporting Dashboards
- **Frameworks & Libraries:** Frappe, ERPNext, Node.js, Express
- **Tools & Technologies:** Docker, Jira, Node-RED, ThingsBoard, CSS, SAS
- **Methodologies:** Agile, Data Modeling, Data Wrangling

Projects

- **Lung Cancer Prediction and Detection | Machine Learning & Deep Learning (Graduation Project)**

  Developed a predictive model for lung cancer using machine learning algorithms like SVM, KNN, and Logistic Regression. Implemented a CNN-based deep learning model for accurate detection.

- **Age Dataset Analysis: Life, Work, and Death of 1.22M People | Data Analysis**

  Conducted data preprocessing and analysis on a dataset spanning historical records from ancient times to the present.

- **Credit Risk Analysis & Clustering | Machine Learning & Data Analysis**

  Improved credit risk assessment by combining unsupervised learning with logistic regression, optimizing customer acquisition strategies for a credit card company.

- **Loan Default Prediction | Machine Learning & Data Analysis**

  Participated in the Coursera Loan Default Prediction Challenge, leveraging machine learning techniques on a dataset with 255,347 records to enhance predictive analytics in the financial sector.

- **Bank Dataset Analysis | Data Analysis**

  Performed data engineering, analysis, and visualization to extract insights from a bank dataset.

- **Grocery Store Management System | C#**

  Developed an application enabling admins to manage fruit and vegetable inventory while allowing users to add items to their cart and complete purchases.

- **School Management System | Java**

  Designed a system for schools, allowing teachers to schedule exam timings and manage academic activities.

- **Trivia | C#**

  Built a console-based trivia quiz with 10 astronomy questions. Used a QA class for question management, validated user responses, and tracked correct answers. Demonstrated Java, user input handling, and modular programming.

- **Real-Time Weather Dashboard | Python & Flask**

  Built a real-time weather dashboard that integrates with a weather API to display live temperature, humidity, and conditions, enhancing skills in web development, API integration, and data visualization.

- **Atm | Java**

  Developed a console-based ATM application handling deposits, withdrawals, balance checks, and PIN validation. Implemented OOP principles with a modular structure (UI and logic layers). Demonstrated Java proficiency, input handling, and error prevention for overdrafts.