OMAR WAEL ATTIA

Data Scientist

📞 +201021186028 @ omarwaelattia96@gmail.com 📍 Giza, Egypt

SUMMARY

Tech professional with a strong foundation: 3 years in Software Engineering, 2 years excelling in Data Science. Passionate about crafting web solutions and sharing knowledge as demonstrated through teaching experience at **AUC**

EDUCATION

Master Computer Science and AI
Faculty of Science - Cairo University

📅 09/2020 - Ongoing

Completed the Pre-Master program in Computer Science and Artificial Intelligence at Cairo University's Faculty of Science. Currently pursuing a Master's degree in the Large Language Models.

Postgraduate Diploma of Artificial Intelligence (AI) – 9 Month Program
Information Technology Institute (ITI), Cairo, Egypt
School of Engineering and Computer Science (EPITA), Paris, France

📅 04/2021 – 12/2021

BSc: Computer Science
Faculty of Science - Cairo University

📅 09/2014 - 06/2019

Completed a Bachelor of Science degree in Computer Science from Cairo University's Faculty of Science. Graduated with **First Class honors (1st)** and a "**Very Good**" rating.

EXPERIENCE

Data Scientist
Data Gear Company

📅 06/2022 – current position 📍 Cairo – Hybrid

Contributed to the Anti-Money Laundering (AML) team, enhancing ML solutions for integration with international banks' services. Key achievements include:

- Streamlining ML solutions to fortify AML measures.
- Efficiently collecting and integrating data from diverse sources.
- Developing and implementing supervised and unsupervised AML solutions.

Research Assistant
The American University in Cairo (AUC)

📅 06/2022 – current position 📍 Cairo

Collaborated in a **School of Business**:
- Conducted research on requirement engineering using (LLMs) in the context of school business management.
- Contributed to academic papers and presentations, disseminating findings to the broader academic and professional community.

Teaching Assistant
The American University in Cairo (AUC)

📅 01/2022 – 06/2024 📍 Cairo

Collaborated in a **Data Science BSc Program**:
- Contributing significantly to key courses: Data Mining, Data Visualization, Big Data, Database and Practical Data Science
- Led engaging and practical hands-on sessions on Python, Hadoop, Spark, Hive, H2o, PowerBI, and Tableau to equip students with valuable skills.
- Thoroughly reviewing and enhancing students' assignments, code, and study strategies.

Software Engineer (Hourly)
Phantasm Solutions

📅 02/2021 - Ongoing 📍 Remotely

Primarily focused on creating seamless payment integrations including Google/Apple Pay and Stripe. Key accomplishments encompass:
- Spearheading the development of payment integrations, enhancing user experience.
- Active involvement in feature development and bug resolution across two web applications.

PROJECTS

Bank Customer Segmentation
🔗 Data Gear Company
- Utilized unsupervised techniques to perform extensive customer segmentation for multiple banks.
- Crafted solutions by adjusting models to accommodate distinct data variations and requirements of each bank.
- Empowered banks with profound insights into customer behaviors, strategically guiding personalized service strategies.

Trade Product Data Splitting & Matching
🔗 Data Gear Company
- Splitting product data with regular expression.
- Using Large Language models (LLM) of type sentence transformer on product description.
- Automate the solution and deploy it on bank server.
- Build a daily report of the results

ETL Monitoring Tool
🔗 Data Gear Company
- Developed machine learning models to predict the next day's transaction count for various transaction types from bank sources.
- Built and deployed a Django application to visualize prediction results, facilitating real-time monitoring and decision-making.
- Implemented ETL processes to streamline data extraction, transformation, and loading, ensuring data integrity and availability.
- Collaborated with cross-functional teams to integrate the tool into the existing infrastructure,

Live Dashboard with big data (GCP)
🔗 Upwork - Belgium Client
- Designed and developed a real-time dashboard powered by big data technologies.
- Created an interactive and dynamically updated dashboard using **Dash Plotly** in **Python**.
- Leveraged Google Cloud Platform's **BigQuery** for data processing and integration.
- Implemented data filtrations to provide insightful visualizations in real-time.

TECH STACK

Machine Learning :   Scikit-learn   Pandas   Numpy

Deep Learning :   TensorFlow   CNN   NLP   Recommender Systems

Data Visualization: Matplotlib   Seaborn   Dash   Plotly   Tableau   PowerBI

Programming Languages: Python   Java

Databases: SQL(MYSQL, Oracle, SQL Server)   NOSQL(MongoDB, Cassandra)

Big Data: Hadoop   Apache Spark   ML H2O

Cloud Platform: Digital Ocean, AWS, GCP

Web Frameworks: Laravel   Django

CERTIFICATION

Data Scientist with Python Track
From **Datacamp** - 10/2021

Predictive Analytics Modeler - Mastery Award 2018
From **IBM** - 07/2019

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