

# OMAR WAEL ATTIA

## Data Scientist

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@ [Omar Wael Website](#)

Giza, Egypt

## SUMMARY

Data Scientist and Software Engineer with 5+ years of experience in building scalable AI and data-driven solutions. Specializing in machine learning, big data analytics, and backend systems, with a proven track record in anti-money laundering (AML), NLP, and cloud-based solutions. Passionate about bridging the gap between academic research and industry applications, having taught Data Science at AUC and contributed to AI research on Large Language Models (LLMs).

## EDUCATION

### Master Computer Science and AI

[Faculty of Science - Cairo University](#)

10/2024 - Ongoing

- Completed Pre-Master program in Computer Science and AI.
- Currently researching Large Language Models (LLMs).

### 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

- Graduated with First Class honors (Very Good).

## EXPERIENCE

### Data Scientist

[Data Gear Company](#)

06/2022 - current position Cairo - Hybrid

- Enhanced ML solutions for Anti-Money Laundering (AML) systems used by international banks.
- Streamlined data collection from diverse sources to improve model accuracy.
- Developed supervised and unsupervised models for 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 for business management.
- Contributed to academic papers and presentations.

### Teaching Assistant

[The American University in Cairo \(AUC\)](#)

01/2022 - 06/2024 Cairo

Collaborated in a [Data Science BSc Program](#):

- Led hands-on sessions for key courses: Data Mining, Big Data, Data Visualization, and Practical Data Science.
- Trained students on Python, Hadoop, Spark, Hive, Power BI, and Tableau.

### Software Engineer

[Phantasm Solutions](#)

12/2020 - 05/2022 Remotely

- Spearheaded the development of payment integrations (Google/Apple Pay, Stripe).
- Actively contributed to feature development and bug resolution across web applications.

# PROJECTS

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## Machine Learning as a Service Platform For Banks

🔗 Data Gear Company

- Developed a no-code ML/LLM pipeline builder for banks, enabling seamless data processing, model training, and deployment through a user-friendly interface.
- Integrated with banking systems to support real-time AI workflows for fraud detection, risk assessment, and predictive analytics.

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## ETL Monitoring Tool

🔗 Data Gear Company

- Built machine learning models for transaction count prediction.
- Developed and deployed a Django-based dashboard for real-time monitoring.
- Integrated the tool with existing bank infrastructure.

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## Bank Customer Segmentation

🔗 Data Gear Company

- Developed unsupervised models for customer segmentation across multiple banks.
- Customized solutions to accommodate distinct client requirements, enhancing personalized services.

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## Live Dashboard with big data (GCP)

🔗 Upwork - Belgium Client

- Designed a real-time dashboard using Dash Plotly and Google BigQuery.
- Processed large datasets and provided interactive data visualizations.

# TECH STACK

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**Machine Learning:** Scikit-learn, Pandas, Numpy

**Deep Learning:** TensorFlow, CNN, NLP, Recommender Systems, LLM

**Data Visualization:** Matplotlib, Seaborn, Dash, Plotly, Tableau, Power BI

**Programming Languages:** Python, Java, PHP

**Databases:** SQL (MySQL, Oracle, SQL Server), NoSQL (MongoDB, Cassandra)

**Big Data:** Hadoop, Apache Spark, ML H2O

**Cloud Platforms:** AWS, GCP, Digital Ocean

**Web Frameworks:** Django, Laravel, Flask

**Other Tools:** Docker, Git, CI/CD Pipelines

# CERTIFICATION

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**Data Scientist with Python Track**

From Datacamp - 10/2021

**Predictive Analytics Modeler - Mastery Award 2018**

From IBM - 07/2019

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