

# Muhammad Al-aasar

## Artificial Intelligence Engineer & Data Analyst

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Graduated from the Computer Science Department, Faculty of Computers and Information, Tanta University, with a GPA of 3.3/4. Passionate about AI-driven systems and data analytics, with hands-on experience in Machine Learning and Data Analysis through internships at Zewail University, Instant Academy, and South Delta Electricity Distribution Company

### AREA OF EXPERTISE

- Data cleaning and preprocessing with (Numpy , Pandas)
- Data Visualization (Matplotlib, Seaborn, Plotly, Power BI)
- SQL, Database Management, Query Optimization and Excel
- Business Intelligence (BI), Dashboard Development, Reporting
- Strong understanding of web technologies (HTML, CSS, JavaScript) to support collaboration with development teams

### PROFESSIONAL EXPERIENCE

#### Instant Academy – AI & Data Analyst Intern

October 2024 – Present | Cairo, Egypt

- Analyzed data using Python (NumPy, Pandas) and visualized insights with Power BI.
- Queried and managed databases using SQL.
- Built Supervised Machine Learning models using Scikit-learn, focusing on classification and regression tasks

#### Zewail University – Machine Learning Trainee

Aug 2023 – Feb 2024 | Cairo, Egypt

- Trained and evaluated Machine Learning models on real-world datasets.
- Worked on data preprocessing, feature selection, and model optimization.

#### South Delta Electricity Distribution Company – Data Analyst Intern

Aug 2023 – Sep 2023 | Tanta, Egypt

- Analyzed and cleaned data using Python (Pandas, NumPy).
- Created Power BI dashboards and optimized queries with SQL.

### EDUCATION

**Bachelor's Degree in Computer Science (GPA: 3.1/4), Faculty of Computers and Information, Tanta University**

Sep 2020 - Jul 2024

### PROJECTS

**Data Analysis : I'm worked on multiple data analysis projects, most notably a sales analysis project for BMW.**

- Cleaned and processed raw data using Pandas
- Managed data types and built relationships between tables in SQL Server
- Performed detailed analysis of sales trends by model, country, and time period
- key insights in an interactive Power BI dashboard

- Led a team of 4 members, supervising project workflow and ensuring seamless integration of AI components into a web and mobile-based e-learning platform.
- Developed two AI models to enhance platform functionality, focusing on computer vision and NLP.
- Implemented an AI-powered identity recognition system using OpenCV & OCR for automated ID verification.
- Created an NLP-based model to detect offensive language in course interactions, achieving 90%+ accuracy with TF-IDF & word embeddings.

LANGUAGES

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- **Arabic:** Native
- **English:** Professional Proficiency

KEY ACHIEVEMENTS

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- Developed an AI model for Personal ID Recognition using OpenCV and other libraries to extract text and details from ID cards.
- Built a supervised ML model for offensive language detection using text classification techniques, achieving over 90% accuracy
- Completed multiple AI and data analytics internships, gaining expertise in Python, Excel , SQL, Power BI, and Machine Learning.
- Designed interactive dashboards using Power BI to provide data-driven insights.
- Optimized SQL queries to enhance database performance and data retrieval efficiency.