

Karim Ayman Mohammed

BI Specialist

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Profile

Computer Science graduate with a major in Artificial Intelligence. Gained hands-on experience in data visualization, data cleaning, and reporting. Skilled in applying Exploratory Data Analysis (EDA) techniques to preprocess and clean datasets, enabling the development of impactful dashboards and reports that drive business insights. Seeking a good position as BI specialist.

Experience

Self-Employed

Jun 2024 – Aug 2025

Solo-developer of NiceShot AI (not officially trademarked)

Developed an event detection tool for gameplay analytics, powered by computer vision, that automatically detects, tracks, and extracts key gameplay events from raw footage. The tool simplifies the video editing process, saving time and effort associated with scrubbing hours of gaming footage.

To build this tool, I collected and annotated gameplay data using VGG IA and CVAT for object detection and tracking. I experimented with 3D ConvNets for Temporal Action Localization and fine-tuned YOLO with the Deep SORT tracker to improve event accuracy and tracking. For video processing and event extraction, I integrated OpenCV with FFMPEG. The tool is wrapped in a simple, user-friendly GUI for easy interaction.

Currently, I am offering gameplay clip extraction as a freelance service, helping clients automate highlight generation. Also, I am open to exploring collaboration opportunities with gaming studios, streamers, and other content creators who may be interested in using or further developing this tool.

Information Technology Institute

Mar 2025 – June 2025

Power BI Trainee

Projects:

- **[Graduation Project] Examination System**

Assisted in designing and implementing a relational database schema to manage examination data, including student records, results, instructors, exams, tracks, courses, and departments. Helped develop stored procedures and optimized SQL queries to automate data operations and ensure integrity. Also contributed to building a responsive web app using Python (Flask), HTML, and CSS for CRUD operations on the database. Additionally, I created Power BI dashboards to visualize student performance on freelancing tasks, certificate topics, and hiring trends by companies, utilizing DAX for custom measures and KPIs.

- **Superstore Dataset Reporting with Tableau**

Developed interactive Tableau dashboards to analyze sales performance, customer segmentation, and regional trends. Using Tableau's data blending features, I created KPIs such as revenue, profit margins, and sales growth. Also added dynamic filters and parameter controls to allow users to explore various data dimensions.

- **Delayed Flights Dataset Reporting with Microsoft Power BI**

Performed dataset cleaning in Power Query and designed a star schema data model. Then developed a comprehensive Power BI dashboard to visualize flight delays, cancellations, and average departure/arrival delays per airline. Features like DAX measures, interactive filtering, and drill-through enabled users to explore specific flight details, airlines, and time-based trends.

- **Hotel Reservation System Data Analysis with Python**

Participated in analyzing a dataset of over 100K records using EDA techniques to identify and handle outliers, missing values, and inconsistencies, ensuring the dataset was clean and reliable for further analysis.

Orange Digital Center
AI Level 3 Intern

Jan 2025 – Feb 2025

Education

London South Bank University, BSc. Informatics & Computer Science 2024

Major: Artificial Intelligence | Grade: First Class Honors

The British University in Egypt, BSc. Informatics & Computer Science 2024

Major: Artificial Intelligence | Grade: Very Good

Projects:

- **[Graduation Project] Multi-Agent Reinforcement Learning for Cooperative Control in Wildfires**
 - Created a complex highly stochastic 2D wildfire environment.
 - Simulated learning of heterogeneous agents using attention-based centralized critic MADDPG.
- **Data classification & regression with Machine Learning techniques**
- **Bus transportation database system design & implementation in Oracle server**
- **Job site scraping & Deriving data insights**

Technical Skills

- Programming Languages: Python, C++, Java, SQL, C, Dart
- Data Science & Machine Learning: Beautiful Soup, Requests, Matplotlib, Seaborn, Pandas, Sk Learn
- Business Intelligence & Reporting: Power BI, Tableau, Excel
- Data Warehousing: SSIS, SSAS, SSRS
- Database Management: Microsoft SQL Server, MongoDB

Courses

- **Google Cloud Computing | Telecom Egypt**
- **Ethical Hacking from Beginning to Advance | Telecom Egypt**
- **Artificial Intelligence | Telecom Egypt**

Languages

- **Arabic: Native**
- **English: Fluent**

Additional Information

- **Military Exempt**