

# Mohamed Mayhoub

Data Analyst | Programming & CS Instructor

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## SUMMARY

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Data Analyst and Computer Science Instructor with a Bachelor's in Systems & Computer Engineering (Graduation Project: Excellent) and 3+ years of teaching experience. Skilled at transforming complex datasets into actionable business insights using Excel, SQL, Python, Power BI, and Tableau, while equally passionate about designing learner-centered curricula that bridge theory and practice. Experienced in both online and in-person settings, fostering critical thinking and building confidence in students from diverse backgrounds and skill levels.

## CAREER HIGHLIGHTS

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- Processed and analyzed **63,000+** records across diverse domains (sales, HR, transportation, and customer feedback), delivering end-to-end analytics solutions from data cleaning to executive presentations.
- Built **10+** interactive dashboards and automated reporting pipelines using Power BI and Python, enabling stakeholders to make faster, data-driven decisions with self-service analytics.
- Served as Team Leader at Digital Egypt Pioneers Initiative, coordinating a team of **5 analysts**, overseeing project delivery, and ensuring quality standards across all analytical outputs.
- Delivered **7+ programming and data analysis courses** to **77+ students** across multiple age groups, using structured curricula and hands-on projects in both online and in-person settings.
- Combined academic engineering background with practical teaching and data analysis experience to support learners' technical and analytical growth.

## TEACHING EXPERIENCE

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### Technical Instructor

*Mostakbal Academy*

Nov. 2025 - Present

*Beni Suef, Egypt*

- Delivered structured instruction in programming fundamentals (C++) and networking concepts.
- Supported students through guided practice and continuous feedback.

### Computer and IT Teacher

*Moalimy*

Sep. 2025 - Present

*Remote - Saudi Arabia*

- Delivered online computer and IT lessons covering ICDL and IC3 fundamentals for secondary-level students.
- Adapted teaching methods to diverse learning levels in a remote environment.

### Programming Instructor

*Toppers*

Sep. 2022 - Present

*Remote*

- Delivered 7+ interactive programming courses including Python, Java, C++, HTML/CSS, Scratch, Database Fundamentals, and AI Basics.
- Designed beginner-friendly learning paths combining theory with practical exercises.

## DATA ANALYSIS EXPERIENCE

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### Data Analyst Intern

Jun. 2025 – Dec. 2025

*Digital Egypt Pioneers Initiative*

*Remote*

- Processed **50,000+** records using Python and SQL, implementing automated data quality checks that improved data accuracy by **35%** and eliminated manual validation errors.
- Designed **5** interactive Power BI dashboards with drill-down capabilities to track revenue, customer behavior, and operational KPIs, reducing stakeholder reporting time by **40%**.
- Conducted exploratory data analysis and translated insights into executive-level presentations, supporting **3** strategic business decisions across departments.

### Data Analyst Intern

Jul. 2025 – Sep. 2025

*Brainwave Matrix Solutions*

*Remote*

- Performed sentiment analysis on **10,000+** customer feedback records using Python (NLTK, scikit-learn), achieving **82%** classification accuracy and identifying key satisfaction drivers.
- Applied NLP techniques to extract actionable insights from unstructured text data, uncovering customer pain points that informed product improvement initiatives.

## EDUCATION

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### Bachelor of Engineering in Systems and Computer Engineering

Oct. 2020 – Jul. 2025

*Al Azhar University*

*Cairo, Egypt*

- **Graduation Project:** Al Azhar University Housing System (Grade: Excellent) [🔗](#)

## DATA ANALYSIS PROJECTS

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### UK Train Rides Analytics [🔗](#)

Aug. 2025 – Dec. 2025

*Python, SQL, Matplotlib, Power BI*

- Analyzed **31,000+** train journey records using Python (pandas) and SQL to identify busiest routes, peak travel periods, and seasonal usage trends.
- Performed end-to-end data cleaning and transformation, enabling reliable temporal and route-based analysis.
- Built visualizations on peak months and ride duration patterns to support operational capacity planning.

### HR Employee Attrition Analysis [🔗](#)

Oct. 2025

*Power BI, Excel, Statistical Analysis*

- Analyzed **8,951** employee records to identify attrition drivers and workforce satisfaction patterns across departments.
- Built interactive Power BI dashboards with KPIs, automating data aggregation and reducing executive analysis time from **days to hours**.
- Provided data-driven recommendations on retention strategies based on departmental and demographic analysis.

### Sales Performance Analysis [🔗](#)

Sep. 2025

*Power BI, DAX, Excel, Star Schema Modeling*

- Analyzed **23,604** sales transactions using a star schema model, integrating 5 dimension tables with a central fact table.
- Identified **94%** year-over-year sales growth and key regional performance gaps through time-series analysis.
- Developed interactive dashboards and DAX-based KPIs to track sales, delivery efficiency, and product contribution.

## SKILLS

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**Programming Languages:** Python, Java, C++, HTML/CSS, Scratch, SQL

**Data Analysis:** Python (pandas, NumPy, scikit-learn), Excel (Power Query, Advanced Formulas, Pivot Tables), DAX, Statistical Analysis, Predictive Modeling

**Data Visualization:** Power BI, Tableau, Matplotlib, Seaborn, Interactive Dashboards, Data Storytelling

**Teaching & Pedagogy:** Curriculum Design, Lesson Planning, Classroom Management, Student Assessment & Evaluation, Differentiated Instruction, Remote Teaching, Mentoring

**Tools & Technologies:** Jupyter Notebook, Google Colab, VS Code, MS SQL Server, Git & GitHub

**Communication:** Instructional Presentation, Stakeholder Communication, Academic Writing, KPI Development, Business Intelligence

**Languages:** Arabic (Native), English (Proficient – C1 Certified) [🔗](#)

## CERTIFICATIONS & COURSES

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### Data Analysis & Business Intelligence

- Data Analysis Internship (Team Leader) – Digital Egypt Pioneers Initiative [🔗](#) Jun. 2025 – Dec. 2025
- AI-Powered Data Analyst – Excelerate [🔗](#) Dec. 2025
- Data Analysis Essentials Using Google Colab – RIT & Excelerate [🔗](#) Dec. 2025
- Business Intelligence & Data Analysis – Eyouth [🔗](#) Jun. 2025

### Artificial Intelligence

- AiSK (AI Starter Kit) – ALX Africa [🔗](#) Apr. 2025
- AiCE (AI Career Essentials) – ALX Africa [🔗](#) Jul. 2024

### Leadership & Professional Development

- Digitera (Tech for Non-Techies) – iCareer [🔗](#) Jan. 2026
- Aspire Leaders Program – Aspire Institute [🔗](#) Dec. 2025



Teaching Sample