

KHALID SALIM BAHAJJAJ

DATA SCIENTIST

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SUMMARY

Experience: 3 years of in Data Science and ML, 10 years in Data Analysis, and 11 years in teaching.

Worked on projects with NumPy, Pandas, Scikit-learn, Pytorch, Tensorflow, Excel, and Power BI.

Worked for 11 years as a teaching assistant in Statistics, Linear Algebra, and Image Processing courses.

Multiple awards for academic excellence in undergraduate education.

Excellent with Honors in both B.Sc. & M.Sc.

Authored a MATLAB programming manual for Statistical Communications and Stochastic Processes.

WORK EXPERIENCE

Head of Educational KPIs Unit

05/2023 – Present

AASTMT – Cairo

- Maintaining data acquisition/analysis workflows and KPI dashboards design for decision support
 - Collecting, cleaning & preprocessing admission and student grades data using MS-Excel.
 - Analyzing collected data for insights and visualization using Power BI.
- Developing qualifying courses for academic staff.
- Establishing and maintaining educational channels between different colleges and campuses.

Data Analyst

06/2012 – 04/2023

AASTMT – Cairo

- Admission data extraction and analysis for evaluation and prediction.
- Providing insights & documentation for elevating university rank.
- Establishing and maintaining educational channels between different colleges and campuses.

Graduate Teaching Assistant

01/2001 – 05/2012

AASTMT – Cairo

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|------------------------|----------------------------|-----------------------------|
| ▪ Signal Analysis | ▪ Probability & Statistics | ▪ Digital Signal Processing |
| ▪ Stochastic Processes | ▪ Linear Algebra | ▪ MATLAB |

INTERNSHIPS

Digital Egypt Pioneers Initiative (DEPI) | MCIT

06/2025 – Present

- | | |
|---------------------------------|---------------------------------|
| ▪ Data Science & ML Engineering | ▪ Personal Skills |
| ▪ Business English | ▪ Freelance Skills and Coaching |

ITIDA+GIGs | itida & E-Youth

02/2025 – 05/2025

- | | |
|---|---|
| ▪ Freelance platform profile best practices | ▪ Submitting proposals |
| ▪ Searching and bidding on projects | ▪ Marketing Strategies & personal branding |
| ▪ LinkedIn strategies for freelancers | ▪ Negotiation and Communication |
| ▪ AI for freelancing | ▪ Payments and financial management |
| ▪ Mindset, Resilience | ▪ Building a sustainable freelancing career |

AI Programming with Python | Bertelsmann & Udacity

03/2024 – 08/2024

- Mathematical Foundation for Data Science
- Data Science & ML Engineering

McKinsey Forward Program | McKinsey & Co.

01/2024 – 04/2024

- Adaptability & Resilience: mindset patterns about learning, emotional flexibility, team learning.
- Problem Solving: McKinsey's approach
- Communicating for Impact: Structuring arguments & tailoring them for audience needs
- Digital Transformation

Data Analysis Professional, FWD Initiative | Udacity**10/2022 – 02/2023**

- Data Science & ML Engineering
- Web Scraping
- Foundations of Agile
- Managing Freelance Projects

EDUCATION**2008-2012: M.Sc. in Elect. & Communication Eng. AASTMT****Cairo – Egypt**

- Excellent with Honors (GPA: 3.79)

1994-1999: M.Sc. in Elect. & Communication Eng. AASTMT**Alex. – Egypt**

- Excellent with Honors (GPA: 3.76)

COURSES**Introducing Generative AI with AWS | AWS & Udacity****08/2025**

- ML Found. with AWS: SageMaker
- Introduction to LLMs & PartyRock App
- Real-world applications of Generative AI
- AI Ethics

Artificial Intelligence Fundamentals | Udacity**04/2025**

- Prompt Engineering with ChatGPT
- Ethical AI

Intensive Power BI Course | Qafza**03/2025**

- ML Found. with AWS: SageMaker
- Introduction to LLMs & PartyRock App
- Real-world applications of Generative AI
- AI Ethics

Foundations of Digital Marketing | Bertelsmann & Udacity**02/2025**

- Intro to Digital Marketing Framework
- Business Value
- Customer Segmentation and Persona
- Marketing Channels
- Marketing Objectives and Performance
- Content Planning

CERTIFICATES

- 08/2025 | Intro to Gen AI by AWS & Udacity | Cred. ID: a4246b44-5851-11f0-b5ce-fb20b7ab9c08
- 08/2025 | ML Foundations by AWS • Credly Cred. ID: cb8eb7a5-5191-490a-95a8-f19ee814eb3f
- 04/2025 | AI Fundamentals by Udacity • Cred. ID: 56c9be10-0c54-11f0-b2fb-df0f4a6cf69d
- 02/2025 | Found. of Dig. Marketing by Udacity • Cred. ID: fd993fb6-b7ba-11ef-b3c4-478f3c3804d8
- 08/2024 | AI Prog. with Python by Udacity • Cred. ID: 97a7fb5e-dc53-11 ee-8c21 -d761 e973723a
- 02/2023 | FWD Data Analysis Professional by Udacity • Cred. ID: Y6FMPY7L
- 11/2022 | AWS Machine Learning Foundations by Udacity • Cred. ID: T6HYPVVR
- 05/2022 | 1-Million Jordan Coder Data Analysis Track by Udacity • Credential ID: A4EQEESS
- 02/2022 | FWD Data Challenger Track by Udacity • Cred. ID: RLCCANDV

SCIENTIFIC PUBLICATIONS

- Spatial path separation diversity in 3G multimedia mobile communications using Intelligent Pre-Rake Processing in MISO channels, Radio Science Conference, 2008. NRSC 2008, Tanta, Egypt.

HARD SKILLS

- | Packages/Apps | Coding | Foundation |
|----------------------|-----------------------------|---------------------------------|
| ▪ Microsoft Excel | ▪ NumPy, Pandas, Matplotlib | ▪ Calculus, Linear Algebra |
| ▪ Power BI | ▪ Tensorflow, Hugging Face | ▪ Descriptive/Inferential Stat. |
| ▪ Anaconda | ▪ Pytorch, Scikit-learn | ▪ NNets. |
| ▪ Jupyter Notebooks | ▪ OOP, SQL, Git, GitHub | ▪ Agile Project Management |

PERSONAL SKILLS

- | | | |
|--------------------|----------------------------|-----------------------------|
| ▪ Self-motivated | ▪ Problem Solving | ▪ Adaptability/Resilience |
| ▪ lifelong learner | ▪ Design/Critical thinking | ▪ Negotiation/Communication |

LANGUAGES

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|-------------------|--------------------|
| ▪ Arabic (Native) | ▪ English (Fluent) |
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