# **Ahmed Ayman Al-hofy**

Data & ML Scientist | Cairo, Egypt | (+20) 1027557259 | ahmedalhofy42@gmail.com | https://github.com/AhmedAyman4 | https://www.linkedin.com/in/ahmed-alhofy/ | View my website!

#### **SUMMARY**

Aspiring Data & Machine learning Scientist with skills in Python, SQL, ML, NLP, and data analysis. Proficient in Pandas, Scikit-learn, Tableau, and Power BI. Information Systems student at the Faculty of Computers & AI, University of Sadat City, passionate about solving real-world problems with data and AI.

# **EDUCATION**

Bachelor's Degree, Faculty of Computers & Artificial Intelligence – University of Sadat City

Graduating June 2026

CGPA: 3.2 & Major: Information Systems.

## **SKILLS**

Languages: Python (NumPy, Pandas, Scikit-learn, NLTK), SQL, MySQL, HTML, CSS, JavaScript, React.js, and Next.js.

**Tools & Skills:** Excel, Tableau, Power BI, ML, NLP, data analysis, visualization, probability, statistics, OOP, problem-solving, communication, adaptability, and analytical thinking.

## **EXPERIENCE**

Data scientist | Digital Egypt Pioneers Initiative - DEPI · Internship | Alexandria, Egypt · Hybrid

Oct 2024 - May 2025

- Analyze data using Python, SQL, and analytics tools to identify trends, opportunities, and business insights.
- Build and deploy ML models with Python, Scikit-learn, and MLflow, leveraging AI and prompt engineering for integration.

## Intern | CIB Egypt | Cairo, Egypt

Jul 2024 - Jul 2024

 Gained data and financial literacy expertise, entrepreneurship, and teamwork to enhance problem-solving, decision-making, and business success.

#### **PROJECTS**

# **Semantic Book Recommender With LLMS:**

• Built an end-to-end book recommendation system that **enhanced user query relevance and filtering** by integrating **semantic search**, **zero-shot classification**, **and sentiment analysis** using LLMs; deployed an interactive **Gradio web app** enabling real-time recommendations based on **tone**, **genre**, **and natural language input**.

# **Customer Segmentation in Marketing:**

Conducted data analysis on acquisition channels' impact on student performance to generate insights and support decision-making
by applying ML clustering for customer segmentation and data visualization techniques.

## **Customer Conversion Prediction:**

• Developed a predictive model to identify high-potential customers by applying ML algorithms (Random Forest, Gradient Boosting) and optimizing marketing efforts through data analysis and visualization.

#### **Analyzing Customer Churn in Tableau:**

 Analyzed telecom customer churn to identify attrition drivers by creating interactive visualizations in Tableau and crafting a data story for stakeholder insights.

# **COURSES AND CERTIFICATIONS**

•	AWS Certified AI Practitioner Issued by Amazon Web Services Training And Certification	Apr 2025
•	Data Scientist Associate Issued by Data Camp	Aug 2024
•	AWS Academy Graduate - AWS Academy Machine Learning for Natural Language Processing	Aug 2024
•	AWS Academy Graduate - AWS Academy Cloud Foundations	Jun 2024
•	AWS Academy Graduate - AWS Academy Data Engineering	Jun 2024
•	Applied Data Science with Python - Level 2 Issued By IBM	May 2024
•	Google Data Analytics Professional Certificate Issued By Coursera	Jul 2024
•	The Machine Learning Process A-Z – Issued By 365 Data Science	Nov 2024
•	McKinsey Forward Program - Issued by McKinsey & Company	Dec 2024
•	AI Fundamentals Certificate Issued by Data Camp	Jul 2024