

# Ahmed Ayman Al-hofy

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## 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, and CSS.

**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 October 2024 – Present

- 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 · 1 Mo

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

## PROJECTS

### Semantic Book Recommender With LLMS:

- Developed a Semantic Book Recommender using LLMS with text cleaning, semantic search, and a vector database for natural language book queries. Implemented text classification and sentiment analysis for genre/mood filtering and built an interactive Gradio web app for seamless recommendations.

### Customer Segmentation in Marketing:

- Conducted data analysis on acquisition channels' impact on student performance, applied ML clustering for customer segmentation, and used data visualization for insights and decision-making.

### Customer Conversion Prediction:

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

### Analyzing Customer Churn in Tableau:

- Analyzed telecom customer churn using Tableau, created interactive visualizations to identify attrition drivers, and crafted 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