

# 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: 3.23 & 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
• Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate Issued by Oracle	Jun 2025
• Data Scientist Associate Issued by Data Camp	Aug 2024
• IBM SkillsBuild Data Analytics Certificate Issued by IBM SkillsBuild	Jun 2025
• 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