Ahmed Hussein Salama Nassar

AI & Data Science Enthusiast

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SUMMARY

AI-focused Computer Science student with hands-on experience in Python, Machine Learning, Data Science, and Data Analysis. Currently completing a professional AI & Data Science internship with DEPI, developing practical skills in data preprocessing, feature engineering, model evaluation, and deployment. Experienced in building machine learning projects, analyzing imbalanced datasets, and applying explainability techniques. Strong foundation in Data Structures, Databases, OOP, and problem solving, with a collaborative and analytical approach to projects.

PROFESSIONAL EXPERIENCE

AI & Data Science Track Intern 07/2026 – 12/2026
Digital Egypt Pioneers Initiative (DEPI) Cairo, Egypt
Training on applied Machine Learning and Data Science workflows as part of a structured, industry-aligned track
Building practical skills in Python, data analysis, and model development through guided projects and coursework

EDUCATION

Bachelor's Degree in Computer Science - Artificial Intelligence 09/2024 – Present
October 6 University - Faculty of Computers and Information Giza, Egypt

SKILLS

- **Programming:** Python, Java, C++, SQL
- **Data Science & Analysis:** Pandas, NumPy, Data Analysis, Data Preprocessing, Exploratory Data Analysis
- **Machine Learning:** Scikit-learn, XGBoost, Model Evaluation, Feature Engineering, Class Imbalance
- **Data Visualization:** Matplotlib, Seaborn
- **AI & Explainability:** SHAP, Model Interpretability
- **Deployment & Tools:** FastAPI, Streamlit, Jupyter Notebook, Git, GitHub
- **Computer Science:** Data Structures, Object-Oriented Programming, Databases
- **Soft Skills:** Problem Solving, Analytical Thinking, Teamwork, Collaboration, Communication, Initiative, Adaptability

LANGUAGES

- Arabic • English

PROJECTS

Credit Risk Prediction | Python, XGBoost, Scikit-learn, SHAP, FastAPI, Streamlit

- Built an end-to-end ML pipeline on 150,000 customer records, cleaning and engineering 13 final features while handling a 93.3%/6.7% class imbalance.
- Trained and compared Logistic Regression, Random Forest, and XGBoost, selecting XGBoost for achieving the highest recall (0.62) — critical for correctly identifying high-risk customers.
- Used SHAP to identify Total Times Late and Credit Utilization as the top drivers of default risk, improving model transparency and trust.
- Deployed the solution using FastAPI and Streamlit.

AI Fitness Coach | Python

- Developed a Python application that calculates daily calorie, water, and protein requirements based on user metrics, including BMI.
- Integrated an AI model to provide personalized fitness and nutrition recommendations

Drawing App | Java

- Developed a desktop drawing application using Java and Object-Oriented Programming principles.
- Implemented user interactions and drawing functionality while applying OOP concepts