

Abdallah Ayman

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SUMMARY

Versatile and results-driven Information Technology student with hands-on experience in **Full-Stack Development** and a strong passion for data science. Proven ability to develop and maintain desktop applications, alongside experience in analyzing complex datasets using Python, SQL, and Scikit-learn. Proficient in building predictive models, creating interactive dashboards with Streamlit, and developing robust back-end solutions. Eager to leverage a diverse skill set in both software development and data analytics to solve complex problems and drive business value.

PROFESSIONAL EXPERIENCE

Full-Stack Developer

Al-Tawfik Company – Cairo, Egypt | Mar 2024 – Aug 2024 (6 Months)

- Developed and maintained robust desktop applications for internal business operations using Python and frameworks like PyQt/Tkinter.
- Designed and implemented user-friendly interfaces, ensuring a seamless user experience.
- Managed back-end logic and performed database integration using SQL to ensure data integrity and efficient data retrieval.
- Collaborated in the full software development lifecycle, from requirement gathering and design to testing and deployment.

Data Scientist Intern

Digital Egypt Pioneers Initiative (DEPI) – Cairo, Egypt | Oct 2023 – Feb 2024

- Conducted exploratory data analysis (EDA) using Pandas, NumPy, and Scikit-learn to extract actionable insights.
 - Designed classification models to enhance business intelligence and support strategic decision-making.
 - Built interactive dashboards and visualizations using Streamlit and Plotly for internal stakeholders.
 - Collaborated with cross-functional teams to deploy lightweight machine learning models using Flask.
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EDUCATION

Bachelor of Science in Information Technology

New Cairo Technological University (NCT) – Giza, Egypt | Expected Graduation: 2027 | GPA: 3.5/4.0

- **Relevant Coursework:** Data Structures, Data Analysis & Visualization, Database Systems, Artificial Intelligence, Operating Systems, Systems Programming.
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KEY PROJECTS

Customer Churn Prediction Dashboard | Python, Streamlit, Machine Learning

- Developed an interactive dashboard for real-time churn prediction using Streamlit.
- Trained a RandomForestClassifier model; applied RandomOverSampler to handle class imbalance.
- Created dynamic visualizations using Plotly, including Sunburst, Violin, and 3D scatter plots.

Voice Assistant Application | Python, NLP, Speech Recognition

- Built a voice-controlled assistant using SpeechRecognition and pyttsx3 libraries.
 - Integrated Google Speech API for high-accuracy speech-to-text conversion.
 - Enabled system-level controls via voice commands, enhancing user experience through automation.
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TECHNICAL SKILLS

- **Programming Languages:** Python, SQL, JavaScript, HTML/CSS
 - **Back-end & Web:** Flask, Node.js (Basic), RESTful APIs
 - **Desktop Development:** Python (PyQt, Tkinter)
 - **Data Science & ML:** Pandas, NumPy, Scikit-learn, TensorFlow, Keras, Matplotlib, Seaborn, Plotly, NLP
 - **Databases:** MySQL, SQLite, MongoDB
 - **Deployment & Tools:** Streamlit, Git/GitHub, Jupyter Notebook, VS Code, Web Scraping, Automation
 - **Cloud Platforms:** Google Cloud Platform (BigQuery), AWS (Basic Familiarity)
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CERTIFICATIONS

- **Digital Egypt Pioneers Initiative (DEPI) Certificate** (2024)
 - **ALX AI Career Essentials (ACE)** (2024)
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