

Ahmed Abdo Amin

Data Engineer

📍 Egypt ✉ ahmedabdoamin997@gmail.com 🌐 Ahmed Abdo ☎ (+20) 1224040645

Work Experience

Data Analyst

2024/04 – present

Digital Hub [🔗](#)

New Cairo, Cairo, Egypt

- ✓ Proficient in data extraction and transformation techniques.
- ✓ Expertise in Microsoft Excel, Power Query, ETL software, and Python scripting.
- ✓ Leveraged extracted data (PDF bulletins) to support research initiatives.

Natural language Processing Intern

2022/10 – 2023/02

Microsoft [🔗](#)

Cairo, Egypt

- Speech translation on Egyptian Arabic Dialect [🔗](#) .
 - ✓ Putting data as Egyptian videos in a suitable form.
 - ✓ Using the open-source, free tool VSE to extract subtitles from Egyptian videos which haven't contain their English transcripts.
 - ✓ Using subtitle edit program which helped us to cut the audios in a professional way and extract their subtitles.
 - ✓ Making the metadata file, each record in the metadata consists of the audio name and its translation.
 - ✓ Maintain the data (segment it with a bigger length).
 - ✓ Built a website with a usable interface for the end user to translate Egyptian speech into English text.

Data Science and Artificial Intelligence Intern

2022/02 – 2022/06

IBM [🔗](#)

Cairo, Egypt

- ✓ Proficient in predictive analytics and forecasting.
- ✓ Expert in data analysis and insight generation.
- ✓ Mastery of IBM SPSS Modeler and IBM Watson Studio through these two certificates:
 - Predictive Analytics Modeler 2020 - Mastery Award [🔗](#)
 - Artificial Intelligence Analyst 2021 - Mastery Award [🔗](#)

Education

MEng degree in Data Science and AI

2022/02 – 2023/07

uOttawa University [🔗](#)

- Final Grade: **Excellent**.
- Graduation Project: **End-to-End Speech Translation of Contemporary Egyptian Arabic Dialect** [🔗](#) .
- Sponsor: **Microsoft**.

B.Sc. degree in Computer Science

2015/09 – 2019/07

Zigzag University [🔗](#)

- Final grade: **Very Good with Honor**.
- Graduation Project: **Online Table Reservation and Delivery Service Provider**.

Projects

"Using ETL and Data Pipelines with Airflow and Kafka to Decongest the National Highways" project

- Airflow schedules the data pipeline.
- Kafka ingests traffic data from toll plazas.
- Extract the data, transforms it into a consistent format, and loads it into a database.
- Reveal traffic patterns, identify congestion hotspots, and formulate strategies for decongesting the national highways.

Designing a data warehouse for a solid waste management company project

- Generate waste collection reports, optimize operations, and reduce environmental impact.
- The PostgreSQL-based warehouse, "solidwasteDW," was created using CSV files, ensuring data accuracy and accessibility.

Pharmaceutical Sales Analysis project (GitHub)

- Developed star schema data model for global pharmaceutical sales.
- Conducted data analysis using PowerBI.
- Generated insights into pharmaceutical sales, distribution, customer behavior, and sales team performance.

US Federal Campaign Finance Data 1990–2016 Analysis Project (GitHub)

- Spark application design, implementation, and enhancement.
- Data analysis focusing on individual contributions
- Data-driven insights and understanding
- Impact analysis of presidential and midterm elections
- Donor influence analysis (industry, ideology).

Skills

Coding — Python, SQL, NO-SQL, Git, GitHub, and problem-solving.

Data Engineering — SSIS, Talend Open Studio.

Data Analysis and Science — Tableau, Pandas, NumPy, Matplotlib, NLTK, Keras, and Probability.

Operating Systems — Linux and Windows.

Familiar with — Oracle, Microsoft SQL Server, MongoDB, Cassandra, PostgreSQL, Redis, Hadoop, Azure.

Soft Skills Certified by 'Dale Carnegie'

- **Presentation Skills.**
- **Communication Skills.**
- **Leadership Skills.**
- **Teamwork.**