

Ahmed Azab

Data Engineer

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ABOUT ME

Data Engineer with 4+ years of experience in designing and maintaining scalable data pipelines using Python, SQL, and cloud technologies (Azure, AWS, GCP). Experienced in ETL, big data processing, and machine learning applications. Currently pursuing a Master's in AI & Data Science at Czestochowa University of Technology. Passionate about building data-driven solutions that optimize business performance. Actively seeking full-time opportunities in Poland while continuing my academic journey.

EXPERIENCE

LXT | DATA ENGINEER

Jan 2024 – Present | Full time | Remote

- Specialize in creating and maintaining robust data pipelines using Airflow and Mage.
- Work extensively with Google Cloud Platform (GCP) services for scalable data solutions.
- Design scalable and reliable solutions for efficient data integration and processing using Python.
- Developed Streamlit tools to enable non-technical users to handle data tasks, reducing support tickets and freeing up engineering resources for deeper solutions.
- Expertise in handling both unstructured and semi-structured data.
- Support diverse data needs for advanced analytics and critical decision-making.
- Focus on ensuring optimal data availability and quality within the organization.

DIGITAL EGYPT PIONEERS INITIATIVE - DEPI | SESSION LEAD & INSTRUCTOR (DATA ENGINEERING, DATA SCIENCE)

Apr 2024 – Present | Part-time | Cairo, Egypt | Remote

- Lead structured training sessions in AI, Data Science, and Cloud Technologies, bridging academic learning with real-world applications. , tailored to over 2000 students with diverse professional aspirations.
- Teach SQL, Python, Data Engineering, MLOps (MLflow, Hugging Face), and Machine Learning.
- Deliver Data engineering, Data Science courses covering Data Science Methodology, Databases & SQL, Data Analysis, Machine Learning, and MLOps.
- Mentor students, providing hands-on projects, industry case studies, and AI-driven problem-solving approaches.
- Foster a dynamic learning environment by integrating real-world AI applications and cutting-edge technologies.
- Currently preparing a YouTube channel focused on Data Engineering and AI education to extend reach and contribute to the tech learning community. Launching in April 2025.

PRICINGONE | DATA ENGINEER

Dec 2022 – Dec 2023 | Full time | Egypt

- Expert in ETL processes and Data Warehouse modeling using Python and SQL, optimizing data integration and storage solutions.
- Utilizing ADF (Azure Data Factory) and Python-based web scraping tools like Selenium and Scrapy to extract data from diverse sources.
- Developing automated data cleansing pipelines with Python and Azure Databricks to enhance data quality and efficiency.
- Designing robust data models and schemas using SQL on Azure SQL to fulfill both functional and non-functional product requirements.
- Efficiently managing data across multiple platforms including Azure SQL and Azure Blob Storage.
- Specializing in time series analysis and forecasting with Python, leveraging advanced techniques to drive predictive insights.

CORELIA | DATA SCIENTIST

Apr 2022 - Oct 2022 | Full time | Egypt

- Enhanced technical support team performance through an NLP-based ticket distribution system, built with Python and SQL, significantly reducing ticket assignment time.
- Led data extraction initiatives using Python-based web scraping tools like Selenium and BeautifulSoup to collect vital operational data.
- Designed and maintained end-to-end data pipelines using Python and SQL to power an efficient ticketing system, improving support response times and overall customer satisfaction.

UPWORK | DATA SCIENCE FREELANCER TOP RATED

Oct 2021 - Apr 2022 | Freelance

- Completed various data science projects, generating over \$5,000 in revenue.
- Developed an automated data collection script, expediting website transformation and boosting company profits.
- Implemented machine learning solutions in Matlab projects and executed numerous web scraping assignments.
- Maintained a perfect 5/5 rating across all projects, reflecting exceptional quality and client satisfaction.
- Achieved a 100% Job Success Score (JSS), demonstrating consistent delivery of top-tier results and reliability.

CORPORATICA | MACHINE LEARNING INTERN

Dec 2021 - Feb 2022 | Full time | Remote

- Focused on the design and development of machine learning and deep learning systems.
- Contributed to the creation of a chatbot by preparing and collecting data.
- experience working with AWS services.

HIGH INSTITUTE OF ELECTRONIC ENGINEERING, BELBIS | TEACHING ASSISTANT

Oct 2020 - June 2021 | Full time | Egypt

- Assisted in teaching undergraduate courses in Computer Engineering, focusing on programming.
- Conducted lab sessions, providing hands-on guidance in data structure, digital logic design, and operating systems.
- Developed course materials, practical assignments, and assessments to reinforce theoretical concepts.
- Provided academic support and mentorship to students, assisting with coursework, projects, and exam preparation.
- Led tutorial sessions, simplifying complex engineering topics and enhancing students' problem-solving skills.
- Collaborated with faculty to improve course structure and integrate industry-relevant technologies.

SKILLS

TECHNICAL SKILLS

Programming Languages

• Python 3

Frameworks

• Flask • Dash • PySpark

Database

• PostgreSQL • MySQL • Azure SQL

Web scraping

• Selenium • BeautifulSoup • Scrapy

Other

• Streamlit • MLflow • Hugging Face

• Git • Linux • Content creation

Familiar

• C • Java • NoSQL

MACHINE LEARNING SKILLS

• TensorFlow • OpenCV • NLTK

• SKlearn • Matplotlib • Pandas

• Numpy • seaborn • Plotly

• ML Matlab

CLOUD SKILLS

• Azure • Synapse • Data factory

• Databricks • Virtual machines • blobs

• AWS • EC2 • Sagemaker

• GCP

EDUCATION

MASTER IN ARTIFICIAL INTELLIGENCE AND DATA SCIENCE Częstochowa, Poland
FEB 2025 – PRESENT | CZEŃSTOCHOWA UNIVERSITY OF TECHNOLOGY

INFORMATION TECHNOLOGY INSTITUTE (ITI) | AI PRO PROGRAM – 9 MONTHS

Sept 2021 | Nasr City, Egypt

Joint program with EPITA (École Pour l'Informatique et les Techniques Avancées), France

BACHELOR OF ENGINEERING | MONOFIYA UNIVERSITY

Graduated May 2020 | Monofiya, Egypt

Bachelor of Electrical and Computer Engineering

PROJECTS

- Internal Streamlit Tool for Data Transformation (LXT) – Built a user-friendly app using Python and GCP that enabled non-technical users to handle data loading and validation, reducing support tickets by 40%.
- Big Data ETL Pipeline (PricingOne) – Developed scalable ETL workflows with PySpark and Azure Databricks, improving data readiness and analytical turnaround.
- Time Series Forecasting for Pricing Strategy (PricingOne) – Created forecasting pipelines with Python and SQL to predict key product pricing metrics, supporting business decisions.
- NLP-based Ticket Classifier (Corelia) – Implemented a Python and SQL-driven system to automatically assign support tickets, cutting manual triage time significantly.
- Web Scraping Projects (Various) – Designed and maintained data scraping pipelines using Selenium, Scrapy, and BeautifulSoup for multiple business use cases.
- Football Player Dashboard – Built an interactive dashboard using Dash and Plotly to visualize player performance metrics for analytical reporting.
- Multiclass Classification with Matlab – Developed machine learning models to tackle complex multiclass classification problems.
- Seoul Bike Rental Prediction – Applied regression models (LR, RF, SVR) to predict rental demand using weather and seasonal data.
- Adagrad, RMSProp, Adam Algorithms – Recreated optimization algorithms from scratch in NumPy to reinforce understanding of deep learning techniques.
- Bar Chart Race Visualizations – Created animated data stories using bar chart race visuals to present historical trends engagingly.

VOLUNTEERING

- IEEE – Member of the Robotics and Automation team, contributing to hands-on technical projects and workshops.
- AIESEC Egypt – Worked with the Incoming Global Volunteer (IGV) program to facilitate international volunteering and cross-cultural exchange.
- Lifemakers Foundation – Participated in community development initiatives and youth empowerment activities.
- Students' Union – Engaged in student representation and organizing campus-wide events and academic support programs.

ADDITIONAL INFORMATION

LANGUAGE

Native:

Arabic

Fluent:

English

DATE OF BIRTH

October 1, 1997