

Ahmed Gharib

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PROFESSIONAL SUMMARY

Experienced Data Engineer with over 6 years of expertise in designing and implementing scalable data solutions across Microsoft Azure, AWS, and Google Cloud platforms. Skilled in building robust data pipelines and ETL processes using SSIS, Azure Data Factory, and Python, as well as optimizing databases like Azure SQL, PostgreSQL, MongoDB, and SQL Server to enhance performance and ensure seamless data management. Proficient in developing interactive dashboards and advanced reports using Power BI, SSRS, and Paginated Reports, enabling real-time insights and data-driven decision-making. Leveraged advanced frameworks like PySpark, Delta Lake, TensorFlow, and PyTorch to create end-to-end data architectures, automate workflows, and enhance predictive analytics. Known for collaborating with cross-functional teams to standardize workflows, improve data governance, and drive operational excellence through innovative and scalable data solutions.

CORE SKILLS

- Data Pipeline Development
- ETL Processes (SSIS)
- Data Warehousing
- Database Management ((SQL Server, PostgreSQL)
- Cloud Platforms
- Data Modeling and Architecture
- Programming Languages (Python, SQL)
- Automation and Scripting
- Data Analytics and Visualization
- Big Data Technologies
- Version Control and Collaboration Tools
- Data Integration
- Performance Optimization
- Reporting and Dashboarding (Power BI, SSRS)
- Machine Learning and AI Tools (TensorFlow, PyTorch)

PROFESSIONAL EXPERIENCE

ITWorx - Free Zone, Cairo

Principal Advanced Analytics Engineer | Oct 2023 - Present

- Spearhead the execution of complex analytics initiatives, leveraging expertise in data modeling, algorithm design, and advanced computational techniques.
- Provide thought leadership in the application of machine learning, statistical methodologies, and dynamic data visualization tools to solve business-critical challenges.
- Collaborate extensively with multidisciplinary teams to identify strategic opportunities and architect innovative data-driven solutions.
- Cultivate a culture of excellence by mentoring and empowering junior professionals, driving the adoption of cutting-edge analytics practices.
- Pioneer advancements by staying attuned to emerging technologies and industry trends, fostering innovation across analytics functions.

VOIS - Smart Village, Giza

Business Insights Senior Lead | May 2022 - Oct 2023

- Engineered a sophisticated desktop application to automate recurring operational processes, significantly decreasing manual intervention by 25%. Demonstrated mastery of Python, PyQt6, Selenium, and Win32com API to develop an intuitive, user-centric solution aligned with stakeholder needs.
- Directed the creation, enhancement, and maintenance of comprehensive Power BI dashboards, delivering actionable insights for Pre-sales, Demand and Utilization, and Work in Progress analysis. Championed data accuracy, integrity, and security while establishing robust governance frameworks.
- Collaborated with cross-departmental teams to embed analytics-driven strategies within organizational workflows, optimizing decision-making efficiency.
- Played a pivotal role in the design and maintenance of a scalable Oracle SQL Data Warehouse, ensuring reliable and efficient data management.
- Migrated datasets to AWS Redshift and Google BigQuery, enhancing scalability and performance.

Atos - Nasr City, Cairo

Data Scientist | May 2021 - May 2022

- Developed and optimized advanced machine learning models and analytical frameworks using Python, Scikit-learn, and TensorFlow to address key organizational challenges and enhance decision-making processes.
- Streamlined operational workflows by deploying predictive models within production environments, utilizing Docker and Kubernetes to ensure smooth integration and robust scalability.
- Implemented MongoDB-based IaaS on Azure, enabling scalable and efficient data storage.
- Established an Elastic Cloud on Kubernetes (ECK) infrastructure on AKS to enhance application monitoring and ensure optimal resource utilization.

- Improved access security by integrating advanced Azure authentication mechanisms into custom Python packages, ensuring robust data protection and seamless interaction across hybrid systems.
- Provided critical analytical insights and developed data visualization solutions for the Microsoft Practice Team, leveraging Power BI, Excel, and SQL Server to support strategic initiatives and drive measurable results.

Coca-Cola - Nasr City, Cairo

Senior BI Developer | Dec 2020 - May 2021

- Developed and maintained a comprehensive suite of Power BI dashboards tailored for Sales, Finance, and HR functions, delivering improved data accuracy, streamlined accessibility, and actionable insights to support critical business operations.
- Streamlined and automated data collection processes for budgets, revenue forecasts, and customer targets utilizing Python and PostgreSQL, enhancing data integrity and significantly reducing processing time. Enabled detailed performance tracking through analytical breakdowns by the sales office, route, SKU, and daily metrics.
- Conducted in-depth data analysis and crafted dynamic visualizations to support strategic planning initiatives and executive decision-making, ensuring data-driven strategies were effectively implemented.
- Established and upheld comprehensive documentation and standardized procedures for data processes, driving consistency, operational efficiency, and compliance across analytics workflows.
- Applied advanced technical expertise in Python, SQL, and data management to refine analytics processes, enhance team productivity, and contribute to achieving organizational goals.

Al Safy Group - Fifth Settlement, New Cairo

Data Analyst | May 2018 - Dec 2020

- Developed a dynamic and interactive sales performance dashboard leveraging advanced Excel Power Query, DAX functions, and VBA to deliver in-depth comparative insights across company branches. This enhanced data visualization and supported strategic business evaluations.
- Innovated an automated commission calculation system using advanced Excel techniques, including Power Query and complex formulas, to consolidate and process sales, targets, and KPIs with improved accuracy and efficiency.
- Designed and executed complex SQL queries to retrieve and analyze sales data from the Microsoft Dynamics AX database, enabling comprehensive tracking of key performance indicators and actionable business insights.
- Automated the cheque issuance process with a custom-built Excel solution, streamlining printing for multiple banks, improving payment tracking, and ensuring reconciliation accuracy.
- Standardized departmental documents, improving consistency, quality, and operational efficiency.

Master's Food - Zamalek, Giza

Accounts Payable Supervisor | May 2014 - May 2018

Al Fares Egyptian Co. (Cottonil) - Nozha, Cairo

Accountant | Feb 2013 - May 2014

The International Hospital for Urology and Nephrology - Mohandessin, Giza

Collector | Jan 2009 - Feb 2013

MAJOR PROJECTS

Core42 - ADX Digital Transformation | Jan 2024 - Present

- **Project Overview:** ITWorx is spearheading a digital transformation initiative for Abu Dhabi Securities Exchange (ADX), a leading financial institution in the UAE, to modernize its infrastructure and enhance market accessibility. This transformation aims to improve operational efficiency, streamline investor services, and strengthen ADX's regional and international standing, fostering capital formation and investment opportunities.
- **Key objectives include:** upgrading trading platforms, automating processes, enhancing online services, leveraging data analytics for informed decision-making, and collaborating with technology partners to ensure robust service modernization. The program serves diverse stakeholders, including investors, listed companies, regulators, government entities, exchange operators, and clearing and settlement firms.
- **Notable Achievements:**
 - Enhanced the performance of Azure SQL Database by optimizing read queries, significantly improving data retrieval speeds for the Market Watch system.
 - Refined the structure and efficiency of tables within the Azure Synapse Dedicated SQL Pool Data Warehouse, ensuring seamless data processing and storage.
 - Designed and implemented a Power BI report to provide real-time performance monitoring for the Operational Data Store Database (ODSDB), facilitating proactive system management.
 - Developed a Python-based library and constructed a Command-Line Interface (CLI) to automate the standardization of Power BI Paginated Reports, reducing the time required for this process from 4 hours to just 15 minutes.

- **Technologies:** Azure Synapse Analytics, Power BI Paginated Reports, Power BI, PostgreSQL, SQL Server, Azure SQL Database.
- **Tools:** Visual Studio Code, Azure Data Studio, SQL Server Management Studio, Azure Portal, PowerShell, Power BI Desktop, Power BI Report Builder, PG Admin.

Abraxes + MED@P Workflow Automation | Oct 2023 – Jan 2024

- **Project Overview:** Developed a fully automated workflow system to manage patient request handling across clinics in German, French, and Italian. The system anonymizes patient data while distributing requests to clinics or doctors based on predefined criteria.
- **Key functionalities include:** notifying clinics of new requests, tracking request status until closure, and imposing penalties on clinics or doctors for delays beyond expected timelines. This solution streamlined operations by enabling efficient request tracking, automating clinic selection without human intervention, and providing regular reports and dashboards to enhance visibility and accountability.
- **Notable Achievements:**
 - Designed and implemented data pipelines and ETL processes using SSIS to extract, transform, and load data, ensuring accurate and efficient report generation.
 - Developed sophisticated SSRS reports to provide in-depth insights and support data-driven decision-making.
 - Successfully deployed SSIS packages across various environments, ensuring seamless integration and reliable data processing.
 - Collaborated with cross-functional teams to automate the generation of the public list report, streamlining workflows and reducing manual effort.
- **Technologies:** SSRS, SSIS, SQL Server.
- **Tools:** Visual Studio, Excel.

Building a Delta Lakehouse for U.S. Flights | Jun 2021

- **Notable Achievements:**
 - Developed a simulation script to generate and stream flight data, replicating real-world scenarios for data ingestion.
 - Created an automated data pipeline to ingest, process, and move streaming data through the various stages of the Delta Lake, ensuring data accuracy and consistency.
 - Delivered a comprehensive end-to-end solution, including data gathering, cleaning, and processing, culminating in data visualization and analysis through Power BI dashboards.
- **Technologies:** Python, PySpark, Delta Lake.

Dog Breed Classifier Application | Oct 2020

- **Notable Achievements:**
 - Designed and implemented a Convolutional Neural Network (CNN) using transfer learning, achieving an accuracy of 83% for dog breed classification.
 - Developed an application that processes input images to identify a dog's breed or suggest the nearest matching dog breed for human images.
- **Technologies:** Python and PyTorch

CERTIFICATION & PROFESSIONAL DEVELOPMENT

- **Data Engineering Nanodegree** | Udacity
- **Google IT Automation with Python Certificate** | Coursera
- **Academy Accreditation - SQL Analyst Associate** | Databricks
- **Microsoft Certified: Power BI Data Analyst Associate PL-300** | Microsoft
- **AI Programming with Python Nanodegree** | Udacity
- **Machine Learning Engineer Nanodegree** | Udacity
- **Advanced-Data Analysis Nanodegree** | Udacity
- **Deep Learning Specialization** | Coursera
- **Mathematics for Machine Learning Specialization** | Coursera
- **Azure Data Engineering Associate (DP-203)** | Coursera
- **Google Cloud Data Engineer Certificate** | Coursera
- **Data Streaming Nanodegree** | Udacity
- **Cloud DevOps Engineer Nanodegree** | Udacity
- **Microsoft Azure Fundamentals AZ-900** | Microsoft

EDUCATION

- **Bachelor's Degree of Commerce** | Ain Shams University | 2008 - 2011

LANGUAGES

- **Arabic:** Native
- **English:** Excellent