Mustafa Megahed
BI/Data Engineer

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SUMMARY

- A passionate Data Engineer skilled in BI, Big Data, and creating Data Pipelines from collection to wrangling to analyzing then visualizing then presenting automated reports.

TECHNICAL SKILLS

- **Languages:** Java, C++, Python, C, JavaScript, HTML, CSS
- **SQL:** SQL Server (T-SQL), Postgres, MySQL
- **ETL:** SSIS, Azure Data Factory, Airflow, Prefect
- **Dashboards/Reporting:** Power BI, SSRS
- **Frameworks:** Pandas, NumPy, Tensorflow, Keras, Matplotlib,scikit-learn
- **Cloud:** GCP, Azure
- **Misc:** SSAS, Docker,Linux, Excel, beautiful soup
- **Big Data:** Pyspark, Azure Databricks
- **Concepts:** Data warehouse, Data Lake, Data Modeling, ETL, ELT, Big data, CI/CD,Database, Data wrangling, Machine Learning, Deep Learning, image processing, Web Scraping

PROJECTS

- **Automatic Analysis Of Cardiac MRI Tissue Characterization [GRADUATION PROJECT]**
  - The proposed FCN-based image processing enables automated accurate reconstruction of native T1 mapping of the myocardium through automated segmentation and registration of multi-contrast T1-weighted MRI images
  - **Tools:** Python, Tensorflow, Hyperband, Clear-ML, Matplotlib, Dense-Net, U-Net, Seg-Net, Dense-UNet, Res-UNet, Image Registration, Mapping, Reconstruction, OpenCV

- **Formula 1 Racing Data Pipeline** ☋
  - Design and Orchestrate a Data Pipeline using Databricks and Azure DataFactory to perform analysis and visualization on Formula 1 race results.

- **Covid-19 Data Engineering Project** ☋
  - This ETL-focused project creates pipelines to ingest data from Azure Blob Storage and the ECDC website, utilizing DataFlows and Databricks for transformation. Transformed data is loaded into Azure SQL Database, Pipeline executions are full automated through triggers, and connecting Power BI to Azure SQL Database for visualization and analysis.

- **Olist-Ecommerce** ☋
  - Building a Data Warehouse for Olist E-commerce data, implement ETL processes with SSIS, and implementing incremental load and slowly changing dimensions (SCD)(Type 0 , Type 1 ,Type 2) to efficiently manage data updates and create reports using (SSRS) and visualize the data using Power BI to provide valuable insights into Olist's operations.

- **Adventure Work Sales Data Mart** ☋
  - Design sales data mart from scratch using SQL and then applying the ETL process to integrate data from AdventureWorks2014, make various transformations and then load it into the Data-Warehouse using SSIS.
  - Using SSAS to enable analysis by organizing data into easily searchable cubes and connect it to Power BI for building Dashboards and get insights from it.

- **Uber Data Engineering Project** ☋
  - Data Collection: Scraping data from NYC website, store it in Google Cloud Storage.
  - ETL Transformation: Use Mage to clean and enhance data, load it into Google Big Query.
  - Visualization: Build interactive dashboards in Looker Studio for data analysis and insights.

- **Telecom-Case-Study-ETL** ☋
  - Using SSIS and SQL to work on a Telecom case study to facilitate the integration of data from different resources, performing some transformations and then load it into a Data Warehouse

EDUCATION

- **Faculty Of Engineering Cairo University** — Egypt
  Bachelor of Systems and Biomedical Engineering; GPA : 3.5 — *Sep 2018 - July 2023*

CERTIFICATION AND COURSES

- **Udemy -** Taming Big Data with Apache Spark and Python - Hands On!
- **Coursera -** Algorithmic Toolbox
- **Udemy -** SQL Server Integration Services (SSIS)
- **Coursera -** Machine Learning
- **Data Talks Club -**Data Engineering Zoom Camp
- **Coursera -** Deep Learning Specialization
- **Udemy -** Mastering 4 critical SKILLS using Python