

ABDELRAHMAN ELMAGRY

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PROFILE

A highly motivated, detail-oriented, and enthusiastic Data Engineer, equipped with a robust foundation in Software Engineering and enhanced capabilities in Big Data technologies, including Apache Spark and Apache Hadoop Ecosystem. Proficient in various ETL processes and tools, I am seeking a challenging role in the field of Data Engineering. Passionate about data, automation, coding, and mathematics, I am eager to leverage my skills and experience to help organizations make data-driven decisions and gain valuable insights from their data.

EDUCATION

faculty of Electronic Engineering – Menoufia University	September 2020 – 2025
Major : Computer Science	
Aspire leaders program – Aspire institute	2023-2024
Academic and professional development program supported by HarvardX coursework and Harvard University faculty . Selective program with applicants from 100+ countries. Coursework includes certificate in project management and data analytics.	

INTERNSHIPS

- Samsung innovation campus – Big Data	Jul 2024 - Sep 2024
Completed a comprehensive Big Data training covering data ingestion, storage, processing with Apache Spark, analytics, modeling, and security.	
- Orange Digital Center – Ai	
Completed an Artificial Intelligence internship, focusing on programming basics, mathematics, machine learning, neural networks, deep learning, and CUDA.	
- National Training Academy (NTA) - Value Training Program	
Completed the value training program for university students , organized by the National Training academy (NTA) and the Decent Life Foundation	

TECHNICAL SKILLS

- **Concepts:** Data Modeling (3NF, Dimensional, and Data Vault), Data Warehousing, ETL & ELT, Data Integration, Big Data Analytics, Data Visualization, OOP Principles, Functional Programming, Cloud Computing, Data structure & Algorithm
- **SQL & NoSQL Databases:** SQL, SQL Tuning, Analytical SQL, PL/SQL, NoSQL, MongoDB, Apache Cassandra
- **Programming & Scripting:** Java, Scala, Python (Pandas, NumPy, and seaborn), Bash Scripting, Python Automation
- **Big Data:** Apache Hadoop, Apache Spark & Spark Streaming, Apache Kafka, Apache HBase, Apache Hive, Impala
- **ETL Tools:** Informatica Power Center, IBM InfoSphere DataStage

- **BI Tools:** Power BI, Tableau, SAP Business Objects, Microsoft Excel
 - **System Administration:** Redhat Admin I & II, Bash Shell Scripting
 - **Version Control:** Git, GitHub
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PERSONAL SKILLS

- **Communications Skills**
 - **Problem Solving**
 - **Time Management**
 - **Teamwork**
 - **Presentation Skills**
 - **Adaptability**
 - **Analytical Thinking PROJECTS**
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Projects

- **Real-Time Stock Market Analysis Using Streaming Processing**
Developed a real-time stock market analysis system using big data technologies (Kafka, Flume, Spark, Cassandra, MongoDB, Kibana) to track live stock prices, analyze sentiment in news articles, and provide real-time alerts and insights.
 - **Data science Salaries**
Performed exploratory data analysis (EDA) on a Data Science Job Salaries dataset, including data wrangling, cleaning, and visualization. Developed an interactive dashboard using Power BI and Python (pandas, numpy, seaborn, matplotlib).
 - **HR Power BI report**
Developed an HR Power BI report project that includes data normalization, data cleaning with Power Query, analysis using SQL Server, visualization with Power BI, DAX functions, and ongoing exploratory data analysis (EDA) using Python.
 - **SQLExploration**
The project focuses on analyzing COVID-19 data using SQL to calculate death rates, infection percentages relative to population, and vaccination progress. It involves creating temporary tables and views to display results and provide insights into the global impact of the pandemic.
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COURSES & CERTIFICATIONS

- Google Data Analytics, Coursera
 - Data Visualization: Empowering Business with Effective Insights, TATA
 - Python For Data Science And Machine Learning, Udemy
 - Advanced SQL Database, Udemy
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Volunteer Experience

- **Volunteer at the Voice of Egypt Youth** November 2022 – Now
Member of the organizing team and participated in organizing many events and conferences, for example: organizing the Arab Week for Sustainable Development, and organizing the Arab Week for Volunteering and Entrepreneurship in Sharm El-Sheikh under the auspices of the Minister of Youth and Sports.
 - **Volunteer at the Egyptian Youth Center** : Member of the photography team March 2022 – Now
 - **Volunteer at Life Makers Organization (IT)**
 - **HR in Resala Organization for Charitable Activities.**
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LANGUAGES

- Arabic Native
- English Professional Working Proficienc