

Ahmed Alaa Elgizawy

Software Development Engineer at Arab International Optronics

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<https://ahmedelgizawy95.github.io/>

Motivation:

I am passionate about **solving business problems** using Data Science & Machine Learning. I systematically & creatively use my skillset to **add tangible value to the team**, the business, And the end-user. I am constantly learning, and always looking to improve.

Skills & Tools:

Programming: Python (Pandas, Numpy, Matplotlib, Seaborn, Scikit-Learn), SQL, web-scraping.

Machine Learning: Linear Regression, Logistic Regression, Decision Trees, Random Forest, KNN, XGBoost, k-means clustering, PCA, Association Rule Learning, Causal Impact Analysis.

Professional Experience:

AIO

November 2019 – Present

Designing and developing **Desktop and back-end Console Applications** using Advanced topics in **C#.NET, Entity Framework, Design Patterns, SOLID Principals & SQL Server Database**.

Web Developer (Freelance at B-Followed)

October 2016 - July 2017 (HTML /CSS)

Web sites development and collaboration in marketing activities for content creation identifying saleable features of products for Social Media accounts for a start-up company in Digital marketing.

Data Science Course Projects:

All projects on GitHub Portfolio (<https://ahmedelgizawy95.github.io/>)

- **Customer Segmentation** using K-means Clustering on grocery transaction data.
- Understanding Juice Product Relationships Using **Association Rule Learning**.
- **Quantifying Sales Uplift With Causal Impact Analysis**.
- **Assessing Campaign Performance Using Chi-Square Test For Independence**.
- **House Prices prediction**. (Using Linear Regression)
- **Machine Learning pipeline** to streamline the ML pre-processing & modeling phase.
- **Data Analysis project for Software Developer Salaries around the world**.
- **Bank System OOP**.
- **Thanos Project**. Function return list of image names ,get half population,function to kill half population randomly which means delete image from universe folder after each 2 seconds , when done killing print (image name).
- **Weather Logs Data Collection from API**.
- **Compu-Tech Web scrapping** (getting laptop names, specs ,prices and URL link and save in Excel or CSV file)

Self-learning courses:

- **Epsilon AI Institute: Certified Data Science Professional:** Using Python. (November 2021, Present).
- **Data Science Infinity:** Actionable Learnings: Extracting & manipulating data using SQL. Application of statistical concepts such as hypothesis tests for measuring the effect of AB tests. Using Python for Data Analysis, manipulation & visualization. Applying data preparation steps for ML including missing values, categorical data encoding , outliers, feature scaling, feature selection & model validation. Applying ML algorithms for regression , classification , clustering , association rule learning, causal impact analysis for measuring the impact of an event over time. ML pipelines to streamline the ML preprocessing & modeling phase, Deep Learning Introduction. (May 2022 –Present)
- **Coursera** : IBM Python Course.
- **Udemy: Entity Framework in Depth.**
- **Udemy: Advanced Topics in C#.**
- **Git/GitHub (Data Science 365).**
- **British Council: (Core Skills & Speaking) CEFR C1. (December 2021)**
- **ITI (Information Technology Institute): Embedded Systems Diploma.**

Education history:

Bachelor of **Computer Engineering**

Arab Academy for Science, Technology and Maritime Transport

September 2013 - June 2018