

# Ahmed Alaa Elgizawy

## Software Development Engineer at Arab International Optronics

### Contact Info:

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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:

#### Arab International Optronics

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:

- **Customer Segmentation** using K-means Clustering on grocery transaction data to split out customers into distinct shopper types that could be used to better understand customers over time and to more accurately target customers with relevant content & promotions.
- **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.( May 2022 –Present )
- **Coursera :** IBM Python Course.
- **Udemy: Entity Framework in Depth.**
- **Udemy: Advanced Topics in C#.**
- **British Council: (Core Skills & Speaking) CEFR C1. (December 2021)**

## Education history:

Bachelor of **Computer Engineering**

Arab Academy for Science, Technology and Maritime Transport

September 2013 - June 2018