

# 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.

### Professional Experience:

#### AIO (November 2019 – Present)

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

- **Designed and Implemented Back-End and Database** for an application to let employees pay for their items without cash using C#.NET and MS SQL Server.
- **Integrating a GPS Module with Laser Range Finder and Thermal Imager:**  
Developed a Desktop Application to integrate Laser Range Finder, GPS module and Thermal Imager in a single system using C#. Resulting in reducing the cost of getting a ready-made device for the same purpose.
- **Testing and Validating a Laser Range Finder (Voxtel, Safran):**  
Developed a Desktop Application to Test and Validate Laser Range Finder by sending commands via RS232 communication protocol using C#.
- **Testing and Validating a Thermal Imager (Plug 612):**  
Developed a Desktop Application to Test and Validate Thermal Imaging Sensor by sending commands via RS232 communication protocol using C#. I successfully reduced the time of entering the thermal imager to service by 1 month and then the company gave me other tasks to test other devices.

#### Web Developer (Front-End at B-Followed)

October 2016 - July 2017 (HTML /CSS)

### Data Science Course Projects:

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

- Predicting Customer Loyalty using ML (**Random Forest, Decision Tree, Linear Regression**).
- Predicting Software Developers Salaries using **Random Forest** (Used Pipeline to automate data preprocessing steps & deployed locally). (Project On GitHub Page not in Portfolio Yet)
- Enhancing Targeting Accuracy Using ML (**KNN, Random Forest, Decision Tree, Logistic**

### **Regression).**

- The “You Are What You Eat” Customer Segmentation using **K-Means Clustering**.
- Compressing Feature Space for Classification using **Principal Component Analysis**.
- 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.
- **Weather Logs data collecting system using web services**.
- Library Books Collection Database and Analysis. (Data Collected using **Beautiful Soup**, Saving to **CSV** file, Storing to a **SQL Lite** database then perform **Analysis**)

### **Technical Skills:**

- Languages: Python, C#.
- Machine Learning (Supervised & Unsupervised learning)
- Data Analytics.

### **Soft Skills:**

- Presentation skills
- Fast Learner
- Research-oriented
- Adaptable
- Independent: able to work with minimal guidance

### **Training and Courses:**

- **Brainnest Consulting (German Company): Data Analysis Training** (8 Oct 2022 – 8 Nov 2022)
- **Epsilon AI Institute: Certified Data Science Professional**. (November 2021, Present).
- **Data Science Infinity: SQL, Python, Imputation, Encoding, Outliers, Scaling, Feature selection & Model validation, Git and GitHub, Machine Learning, Deep Learning** (May 2022– Present)
- **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)