# PETER POTROS

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## SUMMARY

About 2 years of experience in, BI process, Data Analysis, Machine Learning discovering patterns in data and make predictions to answer business questions.

## EXPERIENCE

### BI Instructor at GoMyCode
March 2023 till now

### BI Developer at DataGear
Feb 2022 till now

Creating Clients' needs of reports and dashboards using ART (Analytical Reporting Tool) from Core banking sources

### Machine Learning Intern at Softec Technologies
Oct 2021 to Dec 2021
Building a graphical user application that helps users to generate probabilistic machine learning models without writing the codes using Windows Presentation Foundation (WPF) and Infer.Net.

### Machine Learning Intern at Omdena
Nov 2021 to Dec 2021
Building NLP model that translates English data science content to Arabic

### Data Scientist Intern at Machinfy
Sep 2021 to Oct 2021

Built a classification model to see whether the COVID-19 patient would die or not based on the features in the dataset.

## ONLINE COURSES

### SAS Programming (Coursera)
learned data manipulation techniques using the SAS DATA step and procedures to access, transform, and summarize data.

### Data Scientist with Python Track (Data camp)
88 hours, 23 Courses
6 Projects, 3 Skill Assessments

### Machine Learning Engineer Nanodegree (Udacity)
Learned how to build, train and tune hyperparameters for different AWS SageMaker built-in and custom machine learning models and finally deploy on a web application through endpoint using Amazon API gateway and lambda function.

### Advanced data analysis Nanodegree program (Udacity)
learned more python libraries like Seaborn and Matplotlib.
How to use probability and statistics methods like hypothesis testing and P_value to explore the data and find insights into it.
How to draw visualization and conclusions and finally make predictions.

### Professional data analysis Nanodegree program (Udacity)
Learned python programing language and most data science libraries like Numpy, Pandas and how to gather data about the problem using APIS, web scraping or from different file formats and clean it into a format one can use and fix any problems with it.

### AWS Certified Data Analytics - Specialty certificate

## EDUCATION

**9-months Diploma of Artificial Intelligence**
Information Technology Institute (ITI) Powered by Ecole d'Ingénieurs en Informatique (EPITA)
Apr 2021 to Dec 2021

**Bachelor's Degree of Petroleum Engineering (80.63%)**
Faculty of Petroleum and Mining Engineering- Suez University
2013 to 2018

**High School (99.2%)**
Refaa secondary school,Tahta,Sohag
2011 to 2013

## SKILLS

Python - Java - Oracle - MS SQL Server - Microsoft SSIS - Microsoft SSAS - Microsoft SSRS - PostgreSQL - NoSQL - MongoDB - SAS Enterprise Guide - SAS Programming - SAS studio -  SAS Visual Analytics - PySpark - Cloud AWS - SageMaker - PyTorch - SciketLearn - Keras -TensorFlow - Numpy - Pandas - Matplotlib - Seaborn  Plotly - Dash - AWS - Linux  - BeautifulSoup - Selenium

Machine Learning Algorithms - Deep Learning - Probabilistic programming - Computer Vision - Natural Language Processing - Data Analysis - Data Visualization - Web Scraping - Big Data - Predictive Analytics - AB Testing - Data Warehouse Design - RESTful API

Problem-solving - Time-Management - Teamwork – Self management

## Volunteering

**IT Member**
Society of Petroleum Engineers (SPE) Suez University Student chapter
Sep 2016 to Jun 2017
Participated in the development of the SPE Suez website using WordPress.
Created a website showing projects of my department colleagues.
Received two best member awards.

## LANGUAGES

Arabic      Native
English     Very good

# PORJECTS

## Probabilistic Programming application
Developed a desktop application which allows users to draw the probabilistic machine learning model they want graphically and then it generates the infer.Net code for this model.

## COVID-19 Case Surveillance Public Use Data
Responsible for building a classification model to see whether the COVID-19 patient died or not based on the features in the dataset using random forest classifier and deep learning.

## NLP to Translate Data Science Content into Arabic
Using Machine Translation and transformer models to Translate English Data Science Content into Arabic.

## Web service for "Wuzzuf_Jobs" dataset.
Using Java for data exploration and building machine learning model for "Wuzzuf_Jobs" dataset using smile library and KMeans unsupervised algorithm and deploy it on web service using spring framework.

## Sentiment Analysis Web App Using PyTorch and AWS SageMaker
Built end-to-end Sentiment Analysis model and Deployed the trained model on a web app and accessing our model endpoint using Lambda function.

## Plagiarism Detection using AWS SageMaker
Built a machine learning model to examine a text file and performs binary classification; labeling that file as either *plagiarized* or *not*, depending on how similar that text file is to a provided source text.

## Seoul Bike Rental Prediction          8th/110 (Kaggle Competition)
Predicting the total count of bikes rented during each, using only information available prior to the rental period using time series techniques.

## Car Crashes' Severity Prediction      35th/138 (Kaggle Competition)
predicting the severity of the crash out of 4 levels based on information about the environment of the car crash.

## Data analysis using Twitter API
gathered the data from the dogs_rates Twitter account using Twitter API which displays the doges' pics and their reviews, then wrangled these data from missing and incorrect data to explore them and made data visualization of the results.

## BI Projects
**Creating reports and dashboards using ART (Analytical Reporting Tool) from Core banking sources**
**Designing Business Requirement documents (BRD)**
**Clients:**
  Housing And Development Bank (HDB) Reporting Project
  Faisal Islamic Bank (FIB) Reporting Project
  Financial Regulatory Authority (FRA) Reporting Project
  Banque Misr Reporting Project
  The United Bank (TUB) Reporting Project
  Credit Agricole Egypt (CAE) Reporting Project
  Abu Dhabi Commercial Bank (ADCB) Reporting Project
  NCBA Bank Kenya Reporting Project
  Abu Dhabi Islamic Bank (ADIB) SAS Enterprise Guide Training