#### (002) 01063082049 | Basel.mokhtar@icloud.com https://www.linkedin.com/in/basel-mokhtar-6858162a8/ https://baselm11.github.io/ Portsaid, Egypt.

# BASEL MOKHTAR

#### **Education**

- Graduate of Faculty of Engineering, Port-Said University
- Accumulated Grade: Very Good With Honors "80.4%", Ranked "9"
- Port-Said University, Master of Electrical Engineering, October 2025 (Expected).
- Finished My Graduation Project "Demand Side Energy Management Using PLC" with excellent grade.

Projects "A complete portfolio of my projects is available on GitHub via the link provided in my biography."

## DAY-AHEAD TECHNO-ECONOMIC MARKET SCHEDULING FOR VIRTUAL POWER PLANTS

In Progress

- This study optimizes Virtual Power Plants (VPPs) by integrating Electric Vehicles and Battery Energy Storage for revenue and grid support.
- A day-ahead model uses advanced AI to reduce uncertainties in scheduling based on market prices and renewables.
- It considers factors like EV behavior and battery health for optimal power flow through the VPP's energy management system.
- Overall, the research shows the benefits of coordinating DERs within VPPs for techno-economic advantages.

#### MEPCON 2023 - Conference Paper - Mansoura, Egypt.

December 2023

- Published a paper in International Middle East Power Systems Conference (MEPCON 2023)
- Publisher: IEEE
- Titled "Novel Short Electric Load Forecasting Approach Using a Multivariate Transformer Neural Network and CEEMDAN"
- **DOI**: 10.1109/MEPCON58725.2023.10462386.

# WEB SCRAPPING DATA FROM GOOGLE WIKIPEDIA TO ANALYZE COMPANIES REVENUES. – Personal Project. December 2019

- Task: Scrapes financial data, specifically company revenue information, from Google Wikipedia.
- Method: Leverages Python and the Beautiful Soup library to achieve this.
- Process:
  - Makes HTTP requests to fetch the website's content.
- Parses the retrieved HTML structure to identify relevant data.
- Extracts the company revenue data.
- Transforms the scraped data into a clean format, likely suitable for further analysis or reporting purposes.

## **Work Experience**

#### **ELECTRICAL INSTRUCTOR** – ElSewedy Technical Academy – Portsaid, EG.

Sep 2023 - Current

- Under the direction of academic staff, provides skilled assistance in the preparation of teaching and research aids.
- Takes responsibility for the day-to-day operation of specified workshops, and/or laboratories, and/or equipment, ensuring effective and efficient resource usage is maintained.
- Provides skilled assistance, technical guidance and training to students, academic and research staff, advising on relevant techniques and required safety precautions.

# **GENERAL ORGANIZATION FOR IMPORT AND EXPORT CONTROL** – Inspection Engineer – Portsaid, EG. *December 2021 - Sep 2023*

- Performs full range of Inspection on industrial products and equipment and to report on the quality of products.
- Made quality decisions (accepted or rejected) based on provided Standards and Regulations.
- Reviews Products documents for accuracy and compliance.
- Maintained and organized all records, documentation, and other files associated with inspections.

#### EGYPTIAN CO. FOR METRO MANAGEMENT & OPERATION - Maintenance Engineer - Cairo, EG.

December 2019 - Sep 2021

- Support and direct Catenary engineering and drafting staff.
- Knowledge of Catenary wire properties, insulators and miscellaneous hardware.
- Perform periodic inspections on the catenary overhead line to ensure the stability of service.

#### **Courses and Trainings**

- Classic Control at HA Consulting Company.
- PLC Basic at HA Consulting Company.
- PLC Advanced at HA Consulting Company.
- Electrical Distribution at Right Way Consulting Company.
- Data Analysis: SQL, Python, Tableau, Excel, and Power BI.
- Data Science: Machine Learning and Artificial Intelligence.

### **Skills**

**Python** 

Libraries: pandas, matplotlib, numpy, beutifulsoup2, matplotlib, seaborn, etc.

**Power Bi** 

Tools: DAX, API, Power Query

SQL

Software: SQL Server Management Studio, Microsoft Access

C++

Structured Programming, Object Oriented Programming

Excel

Tools: Pivot Table, Pivot Chart, VLOOKUP, HLOOKUP, VBA

**Tableau** 

Data Preparation, Data Visualization

# **Language Skills**

English

Speaking: Very GoodWriting: Excellent

Understanding: Excellent