Osama Fayez Oun

📍 Cairo, Egypt

✉ osamaoun997@gmail.com

📞 +2 0106 7638 803

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Military state: Completed

EDUCATION

Faculty of Graduate Studies for Statistical Research   **Cairo University**

M.Sc. in Data Science student   *Feb 2024 – Present*

Information Technology Institute (ITI)   **Mansoura Branch**

9-Months Professional Diploma – AI & ML Engineering Track   *Oct 2022 – July 2023*

- Graduation project: Arabic Voice Interface for City Operation Centre – Giza Systems ⧉
    - Arabic & English virtual assistant using Rasa Chat Bot and Lip-Sync using Wav2lip.
    - Used Speech services from Google and Azure, Integration using Django framework.

Faculty of Petroleum and Mining Engineering   **Suez University**

Bachelor of Metallurgical and Materials Engineering   *Sep 2015 – Jun 2020*

- Grade: Very good

PROFESSIONAL EXPERIENCE

Software engineer - Machine learning at Giza Systems   *April 2024 - Present*

- Processing, cleansing, and verifying data integrity used for analysis.
- Selecting features, building, and optimizing pipelines using ML techniques.
- Developing and reviewing low-level software designs, ensuring adherence to coding standards and architectural principles.
- Writing automated build, execution, and deployment scripts for software artifacts.

Data Scientist at Banque Misr   *Aug 2023 – April 2024*

- Collaborating within cross-functional Agile teams to drive end-to-end data projects.
- Developing statistical models and ML algorithms to solve complex business problems.
- Projects:
    - **Early warning system**: outlines credit strategies for customers based on risk level to enhance risk management practices.
    - **Customer 360**: A comprehensive view of customer data across all bank domains
    - **Behavioural segmentation**: categorizes customers based on demographics or behaviour to enable targeted marketing and personalized services.

Instructor at Information Technology Institute (ITI)   *Part time*

- Giving lectures for AI & ML track

Marketing Research Specialist at Elmarakby Steel   *Mar 2022 – Oct 2022*

- Market Research and Data Collection to feed the analysis process.
- Reporting and visualization through building interactive dashboards and presentations.

PROJECTS

Forecasting Sales for Rossmann Stores **(Time Series)** ⧉   *Jun 2023*

- EDA and forecasting using Simple methods, TS, and ML models.
- MSTL, Arima, SARIMAX, FB Prophet, LGBM.

Neural Style Transfer **(CV)** ⬈   *May 2023*
- Implementation of neural style transfer using TensorFlow on VGG19 model.

Arabic dialect classification **(NLP)** ⬈   *May 2023*
- Applying word embedding, ML, and DL algorithms including Transformers like AraBert.

Segmentation of lungs MR-images using U-NET **(CV)** ⬈   *May 2023*
- Implementation of U-net and segmentation with 98% IOU score.

Chest X-ray Classification and CNN layers Visualization **(CV)** ⬈   *May 2023*
- Fine-tuning Xception model and applying GradCAM to Investigate Network Predictions.

Netflix Dashboard **(Data analysis)** ⬈   *Apr 2023*
- Data pre-processing and creating an Interactive dashboard using Plotly and Dash

COMPETITIONS

Aqueous Solubility Prediction ⬈   **ITI AI track competition 2**
1st place out of 13 teams.   *May 2023*

Diabetes Readmission Prediction ⬈   **ITI AI track competition 1**
1st place out of 20 teams.   *Mar 2023*

COURSES

- ML for Production (MLOps) specialization - **Deeplearning.ai** (4 courses) ⬈   *Jul 2023*

- Math for ML & DS specialization - **Deeplearning.ai** (3 courses) ⬈   *Jun 2023*

- Deep Learning specialization - **Deeplearning.ai** (5 courses) ⬈   *Apr 2023*

- Applied Data Science Lab - **WorldQuant University** (8 projects) ⬈   *Mar 2023*

- Machine Learning specialization - **Deeplearning.ai** (3 courses) ⬈   *Feb 2023*

- Python Fundamentals Track - **Datacamp** (4 courses) ⬈   *Jul 2022*

- SQL Fundamentals Track - **Datacamp** (5 courses) ⬈   *May 2022*

SKILLS

- **Programming Languages**   Python, C, C++
- **libraries**   TensorFlow, Pytorch, Numpy, Sklearn, Pandas, Matplotlib, Seaborn, Plotly, Transformers
- **Tools and technologies**   Fast Api, SQL, Power BI, Pyspark, Linux, Git, Rasa, Docker, Django, Airflow, Flower Framework
- **Soft Skills**   Leadership, Negotiation, Communication
- **Languages**   Native in Arabic, very good in English