**Ahmed Mohamed Nassar   
Machine Learning Engineer**

• **LinkedIn**: https://linkedin.com/in/ahmednassarmlops ahmed.nassar.cmp@gmail.com

• **GitHub**: https://github.com/ahmed-m-nassar +966 56 276 5734

• **Medium**: https://medium.com/@ahmed.nassar.cmp +20 1063048424

**Summary**

Machine Learning Specialist with expertise in building and deploying production-ready ML pipelines. Proven ability to leverage MLOps practices for efficient model development. Passionate learner, continuously expanding skillset. Actively contributes to the ML community by publishing articles on Medium.

**Professional Experience**

**Machine Learning / Data Engineer at Ejada**

**ANB *Bank*  Riyadh, Saudi Arabia**

**Customer churn prediction / Automating & deploying ML pipelines Aug 2022-Present**

Led the development of customer churn prediction model at ANB Bank, Riyadh. Also automating and deploying machine learning pipelines resulting in significant reduction in manual effort, timely execution of tasks, and invaluable insights of the patterns of churned customers for business enhancement.

* Meeting weekly with stakeholders to refine model requirements, achieving a 70% recall accuracy in churn prediction.
* Utilizing **SQL**, **Python**,**Pyspark** and **PowerBI** to analyze data and extracting features for model development.
* Optimized ML processes with **Airflow**, automating pipeline development, scheduling, and task execution.
* Integrated **CI/CD** practices to streamline the deployment of machine learning models using **Gitlab** and **Jenkins** .
* Implemented **monitoring** systems with **Evidently AI** to ensure model performance and reliability in production.

**Crédit Agricole Cairo, Egypt**

**Data Warehouse Modernization Project. AUG 2021 -AUG 2022**

Contributed to the Data Warehouse Modernization Project by developing ETLs to load various data sources into the bank's warehouse using **Oracle** and **Informatica PowerCenter**.

* Utilized **SQL** and **ETL** to report , transform and load diverse data sources into the bank's data warehouse.
* **Monitored** daily and monthly workflows to ensure accurate processing and integration within the bank's systems.
* Maintained thorough documentation of **ETL** processes to provide easy reference in project execution.

**Certificates**

* **Google:** GCPMachine Learning Engineer Professional Certificate. **In progress**
* **Udacity:** Machine Learning DevOps Engineer nanodegree. **MAR 2024**
* **Udacity:** Programming for data science nanodegree. **JAN 2024**
* **Udacity:** EGFWD/ Data Analysis Professional Nanodegree. **MAR 2022**
* **Google:** Data analytics Professional certificate. **MAY 2022**

**Education**

**Cairo UNIVERSITY**

***Bachelor of computer engineering* 2016-2021**

* **Graduation Project**: mm Vision, Calibration, and processing of radar waves “mm-Waves” to detect and classify faces by extracting a faceprint and passing it through a convolutional neural network model. Sponsored by Goodix .
* **Overall Grade**: Excellent
* **Graduation Project Grade**: Excellent.

**Projects**

**End-to-End Machine Learning Pipeline for Stock Price**

* Created a stock price prediction pipeline using Python, MLflow, wandb, Airflow, Streamlit, Docker, and GitHub Actions, automating data processing, model training, and deployment with robust logging and CI/CD practices.

**Hand Writing Classifier**

* Developed a robust system for classifying handwritten text from images by leveraging advanced machine learning algorithms and image processing techniques to ensure high accuracy and reliability.

**Paint for Kids**

* Developed an interactive app for kids in C++ to practice OOP principles, featuring intuitive drawing tools for creating fancy shapes and engaging educational games to foster creativity and cognitive development.

**Skills**

* **Programming Languages:** SQL, Python, Java.
* **Tools/Frameworks**: Git, Airflow, Docker, Power BI, MLFlow, PyTorch, Scikit-Learn, Oracle, GitHub Actions, Evidently AI, Langchain, Huggingface.
* **Knowledge**: MLOps, Data Science, Analysis, DevOps, CI/CD, Testing, Deployment, OOP, ML, DL, Monitoring.

**Medium Publications**

* Regularly contribute insightful articles on various machine learning topics on Medium, offering in-depth exploration of the development process behind an end-to-end machine learning pipeline.
* Authored an article featured on DevOps.dev, offering valuable insights at the convergence of machine learning and DevOps methodologies.