

Mohamed Ahmed Ali

mohahmx2@gmail.com | Giza, Egypt – Reallocation possible | (+20)1113393095 | [Linkedin](#) | [GitHub](#) | [Kaggle](#)

EXPERIENCE

Machine learning Engineer – [Blk.ai](#), EG

Mar 2023 - Present

- Trained and deployed efficient OCR Deep learning models on mobile device to validate and extract information from client's ID cutting down cost of third-party APIs and web servers and improving speed by ~60%
- Integrated a Seq2Seq transformer model to transcribe voice calls from call center into a C++ server and developed an optimized search engine to query transcriptions for metadata analysis
- Improved the delinquency and risk assessment algorithms using machine learning models that improve on former method by +20%
- Took part in monthly meetups with product team to research and develop ways to use Machine learning to help business needs including but not limited to:
 - Training our custom Arabic auto-correction ML model for collection & customer service team
 - Developed fraud detection model for fake/Printed/Photoshopped IDs
 - Ran workshops to educate different teams about the use of AI and the possibilities it can deliver

Data Science Mentor for Egypt Chapter – OmdenaAI

Mar 2022 – Mar 2023

- Built and ran open-source AI & ML projects that deal with local issues
- Guided 30-50 aspiring and experienced ML engineers with the goal of educating through working on real world problems
- Managed, tracked and made decisive actions regarding the entire data science pipeline and the team

PROJECTS ([full Data Science portfolio](#))

Data Analysis System for the High School Final Exams in Egypt – [GitHub](#) – [App](#)

Nov 2022


- Led 50+ collaborators in designing a data pipeline where we web-scraped multiple websites for students' public grades using asynchronous approach in python which cut down the scraping time by a factor of 1/20 from traditional sequential approach
- Created an online application using Streamlit that visualizes the data and showcases different metrics
- Provided insights that can help students pick their high school according to local average and their respective division of choice.

Credit Card Default (Churn) Prediction - [Link](#)

Aug 2022

- Performed data cleaning, exploratory data analysis and different visualizations to find key insights in customer data
- Trained extreme gradient boosting machine with grid search cross validation and obtained overall accuracy of 80%
- Improved upon the state-of-the-art models by utilizing much deeper feature engineering techniques

SKILLS

- **Programming Languages:** Python, C/C++, SQL, Dart, Matlab
- **Framework & Libraries:** Pandas, NumPy, Scikit-learn, Matplotlib, Plotly, TensorFlow, Keras, PyTorch, OpenCV, TensorRT, HuggingFace , Paddle, Tesseract, Flutter.
- **Data Science & Miscellaneous Technologies:** Machine learning, Deep learning, Computer Vision, NLP, DS Pipeline, Git, Docker, AWS data stack, web scraping, Agile methodologies

EXTRACURRICULAR ACTIVITIES

Founder – [Data Science Diary](#)

2022 - Present

- Data Science Diary is a digital base for all things data, it includes a series of educational videos for machine learning, data science and data analysis. With one goal in mind, to inspire curiosity first then educate second.

EDUCATION

Cairo University – Faculty of Engineering

2017 – Oct 2021

Bachelor of Engineering - Aerospace, Aeronautical and Space Engineering

Giza, Egypt

- **Relevant coursework:** Machine Learning, Scientific Computing, Statistics