Mohamed Ahmed Ali

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

PROJECTS *(full Data Science portfolio)*

Data Analysis System for the High School Final Exams in Egypt – *GitHub* – *App*   Nov 2022

- Web-scraped multiple website 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 visualize the data and showcase 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 EDA to find key insights in customer data e.g. kde distribution, variables correlation, outlier plot
- Trained extreme gradient boosting machine to fit the data and obtained Gini Coefficient of 80%
- Did a study-case using data to come up with better solution to default prediction with risk managing in mind

3D Jaws Segmentation From CT scan images Using PyTorch - *Link*   Mar 2022

- Built a neural network that utilize U-net architecture with EfficientNet as encoder.
- Achieved average of 98% dice score across the 3 axes.
- Aimed at aiding doctors' decision to determine the best course of action to take considering patient heath.

Neural Style Transfer Using Convolution Neural Network - *Link*   Mar 2022

- Created a python Jupyter script that takes content and styles images and blend them using optimization technique
- Used VGG-19 architecture as a backbone for model

EXPERIENCE

Data Science Mentor/Chapter leader – OmdenaAI – Volunteer   Mar 2022 - Present

I'm the leader of Giza, Egypt chapter at Omdena initiative, where I lead the collaborators into figuring out novel solutions of real-world problems derived by data.

As a chapter lead, I did:

- Built open-source AI projects that solved local problems
- Guided collaborators and tutored them when needed
- Managed, tracked and made decisive actions related to the project and the team

Co-Founder of **TechQuotes** – Part time   2016 - 2020

TechQuotes is recognized as one of the top followed technology hubs in Egypt and the MENA region with more than **400,000** followers

- Revolutionized new ways to spread technology literacy through an easy to follow medium and inspired thousands of young folks to pursue a career in Tech
- Reviewed scripts, collected data for SEO/marketing and maintained the overall quality of the final product
- Led the aesthetic design and the video editing aspects of the brand

SKILLS

- **Programing Languages**: Python, SQL, Matlab, C/C++
- **Framework & Libraries**: Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, TensorFlow, Keras, PyTorch, OpenCV, ONNX, Beautiful Soup, Regular expression, Tableau, Jupyter, Streamlit.
- **Data Science & Miscellaneous Technologies**: Decision tress, Random forest, CNN, RNN, LSTM, DS Pipeline (*cleansing, wrangling, visualization, modeling, interpretation, EDA*), Git, Docker, AWS data stack (*S3, Athena, Glue, SageMaker, Data Wrangler*), web scraping, statistical modeling

EDUCATION

- **Cairo University – Faculty of Engineering**   2017 - 2021
  Bachelor of Engineering - Aerospace, Aeronautical and Space Engineering   Giza, Egypt