Mohamed Ahmed Ali

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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 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 data cleaning, expletory 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

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 (F1 Score) across the 3 axes.
- Aimed at aiding doctors' decision to determine the best course of action to take considering patient heath.

EXPERIENCE

Session lead (Artificial Intelligent) – Udacity   Dec 2022 - Present

- Managing weekly connect sessions with Udacity students to respond to their technical questions
- Explaining concepts of the Nanodegree programs and solving inquires raised by group
- Create a healthy student first environment that encourage learning

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

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 and run 3 open-source AI & ML projects per year that deal with local issues from scratch
- 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
- Sought partnerships with universities, NGOs and government bodies to identify their most pressing issues

Co-Founder – **TechQuotes**   2016 - 2020

TechQuotes is recognized as one of the top followed tech hubs in Egypt and the MENA region with almost half a million 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, Plotly, TensorFlow, Keras, PyTorch, OpenCV, Tableau.
- **Data Science & Miscellaneous Technologies**: Machine learning, Deep learning, Computer Vision, NLP, DS Pipeline, Git, Docker, AWS data stack, web scraping, statistical modeling, Excel, Agile methodologies

EDUCATION

Cairo University – Faculty of Engineering   2017 - 2021

Bachelor of Engineering - Aerospace, Aeronautical and Space Engineering   Giza, Egypt