

Mohamed Ahmed Ali

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CURATED PROJECTS *(full Data Science portfolio)*

American Express 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)
- Tested multiple hypothesis to find observation for churn patterns
- Trained extreme gradient boosting machine to fit the data and obtained Gini Coefficient of 80%

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
- Trained the model on 3 orthogonal axes Axial, Coronal and Sagittal
- Achieved average of 98% dice score across the 3 axes

EXPERIENCE

Machine learning Engineer @ OmdenaAI - Intern Feb 2022 – Mar 2022

(Skills: Predicative Analytics, Machine learning, Data Science)

- Utilized python to implement a CNN for classification of melanoma in lesion images of patients
- Applied several approaches to deal with imbalanced data including focal loss, class weighting and statistical sampling
- Adopted precision, recall and F1-score as a metrics for the training and validation

Co-Founder of [TechQuotes](#) – Part time 2016 - 2020

*(Recognized as one of the top followed Technology channels 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, Pytorch, OpenCV, XGBoost, ONNX, Beautiful Soup, Tableau, Jupyter, PySpark
- **Data Science & Miscellaneous Technologies:** DS Pipeline (*cleansing, wrangling, visualization, modeling, interpretation, EDA*), Git, Docker, AWS data stack (*S3, Athena, Glue, SageMaker, Data Wrangler*)

EDUCATION

Cairo University – Faculty of Engineering 2017 - 2021

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

Relevant Coursework:

∑ Calculus I-IV
∑ Linear Algebra

∑ Probability & Statistics
∑ Machine learning Fundamentals