# Mohamed Ahmed Ali

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

## 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)
- 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.

## 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 sveral approaches to deal with imbalanced data including class weighting and statistical sampling
- Deployed the model on the cloud where it can be used easily with a cell phone to detect cancer skin and positively impact millions of people

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