

# Mohamed Ahmed Ali

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## PROJECTS *(full Data Science portfolio)*

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### Credit Card Default (Churn) Prediction Using Profile Statement Performance - [Link](#) Aug 2022

- Performed EDA to find key insights in customer data (e.g. kde distribution, variables correlation, outlier plot)
- Used visualization to aid the training of a Tree based model and obtained Gini Coefficient of 80%
- Performed hypothesis testing that allows lenders to optimize lending decisions and reduce risk

### 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 health.

## SKILLS

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- **Programing Languages:** Python, SQL, Matlab, C/C++
- **Framework & Libraries:** Pandas, Numpy, Scikit-learn, Matplotlib, Seaborn, Tensorflow, Pytorch, OpenCV, XGBoost, ONNX, Beautiful Soup, Tableau, Jupyter
- **Data Science & Miscellaneous Technologies:** DS Pipeline (*cleansing, wrangling, visualization, modeling, interpretation, EDA*), Git, Docker, AWS data stack (*S3, Athena, Glue, SageMaker, Data Wrangler*)

## EXPERIENCE

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### Chapter lead - Giza, Egypt @ Omdena – Part time Oct 2022 – Present

*Skills: Team Leadership, Mentoring, Project Management, Data Science*

- Mentored Omdena community in solving real-world problems using data science/analysis
- Led project with premise of data analysis system for high school (Thanaweya Amma) results in Egypt - [link](#)
- Guided the participants through the project and explained data science topics in an informative visual format

### 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

## EDUCATION

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### Cairo University – Faculty of Engineering 2017 - 2021

Bachelor of Engineering - Aerospace, Aeronautical and Space Engineering

Giza, Egypt

*Thesis: Finite Element Solver and Post-processor for 3D solids in MATLAB*

#### Relevant Coursework:

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|------------------|----------------------------|
| - Calculus I-IV  | - Probability & Statistics |
| - Linear Algebra | - Scientific Programming   |