Omar Ibrahim

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EDUCATION

Alexandria University, Faculty of Computing and Data Sciences   Alexandria, EG
Bachelor's in Data Science   May 2023
- Relevant Coursework: Machine Learning, Probability & Statistics, Discrete Mathematics, Data Visualization, Software Engineering, Design & Analysis of Experiment and Survey Methodology

University of Cambridge, Upper Secondary Education   Cambridge, UK
International Certificate of Secondary Education (IGCSE)   May 2019
- 2 **A*** grades in Physics and Computer Science, 5 **A**'s including English and 1 B grade.

PROFESSIONAL EXPERIENCE

Nawah.ai   Stuttgart, Baden-Württemberg, Germany
Summer Data Science Trainee   Jul 2021 – Aug 2021
- Solved real world problems by applying hands-on practical data science concepts
- Utilizied machine learning concepts like feature engineering, modelling, model evaluation & testing.
- Deployed machine learning projects with **90%** accuracy as web apps using Streamlit, Python and Scikit-learn.
- Recommended by managing instructor Marwan El-ghitany on LinkedIn as active & knowledgeable with remarkable data storytelling abilities.

VOLUNTEER EXPERIENCE

AIESEC   Alexandria, Egypt
Business to Customer Member / Data Collection Lead   Apr 2021 – Jul 2021
- Data Analysis and collection using surveys on concurrent/past applicants to improve target audience selection.
- Choosing critical organizational decisions based on data
- Maximized measures of success (sign-ups, applicants and finished customers) by x% by reports using Excel

SKILLS

- **Programming Languages:** Python (New Horizons Certified), R, Java, Kotlin, SQL
- **Data Science & Miscellaneous Technologies:** A/B testing, ETL, Data science pipeline (cleansing, wrangling, visualization, modeling, interpretation), Statistics, Time series, Experimental design, Hypothesis testing, OOP, OOD, APIs, Excel, Git
- **Big Data & Machine Learning:** Docker, Spark, AWS (EC2), Google Cloud Run, Heroku, Python (e.g.: - Scikit-learn, NumPy, Pandas, Matplotlib, Plotly, Streamlit)

HONORS AND AWARDS

Huawei
Winner of the HMS APPS UP 2020 innovation contest   November - 2020
- **Won** as one of the **top 20** apps in the Middle East and Africa at Huawei's HMS APPS UP innovation contest with my first ever project, Colorwheel, from **150+** apps and **400+** teams

ACPC
Smart Edu-Hackathon Finalist
- Finalist in the Smart Edu-Hackathon, placed in the **top 18** out of **404** competing teams of **792** participants passing all filtration rounds with our idea, 'Illuminate.'

PROJECTS

Data Analysis, Visualization & Machine Learning
Dockerized Live Twitter Sentiment Analysis Web App   October - 2021
- A Streamlit web app that streams two one-word topics from Twitter entered by the user and runs them through a logistic regression classification algorithm, uses Tweepy and PySpark
- Trained on the Sentiment140 dataset with an accuracy of **81%**.
- Displays current tweet count & sentiment in a visual manner through the user's browser while running in a docker container

Gorkha, Nepal Earthquake Dataset Analysis/Classification   December - 2021
- Analyzed data recorded by the government of Nepal to assess building damage in the earthquake-affected districts for social aid purposes
- Data visualized (on geographical maps) includes population demographics, socioeconomic & building damage data.
- Classified buildings prone to damage by earthquakes using ensemble methods, identifying **90%** of buildings prone to damage correctly.

Native Android Development
Colorwheel – Personal Outfit Color Assistant   September - 2020
- Already deployed and available on the Playstore or the Huawei AppGallery
- Over **10,000** organic installs and over **1500** active users
- Won as one of the **top 20** apps in the Huawei HMS APPS UP 2020 innovation contest in Africa and the Middle East.