

MOHAMED ELTAYEB

DATA SCIENTIST



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Undergraduate student and Kaggle Competitions Expert.

I worked on many projects where I used my knowledge in machine learning and Python to build robust models. I received 3 bronze medals and 1 silver medal from different worldwide competitions in Kaggle. 1st place in Sudan in both Zindi and Kaggle. 1134th in Kaggle worldwide (Top 1%).

SKILLS

- Python.
- Applied Maths.
- Data Analysis.
- Machine Learning.
- Deep Learning.
- Problem Solving.
- Strong Communication

EXPERIENCE

MACHINE LEARNING RESEARCHER

2022 - 2023

- Along with a postgraduates team, I worked on applying Machine Learning to improve equations results that related to earthquakes.
- I worked with another team to apply Machine Learning and Deep Learning models on research projects related to environment and natural resources.

DATA SCIENTIST

2022 - Now

- I worked with a team from USA to offer AI solutions to companies. We dealt with industry-scale data (> 100 terabyte in size) and built many projects related to retail analysis that helped companies maximize their profits and have better marketing strategies. These projects were usually categorized as clustering, forecasting or recommendation systems.

MENTOR AT INDABAX SUDAN 2022

2022

- I gave several workshops about machine learning and deep learning in IndabaX Sudan 2022.

EDUCATION

BACHELOR OF COMPUTER SCIENCE (DIDN'T COMPLETE)

University of Kharotum

2019 - 2023

BACHELOR OF COMPUTER SCIENCE

Islamic University of Medinah

2023 - Now

ACHIEVEMENTS

- 1 Silver and 3 Bronze Medals in different Kaggle Competitions.
 - Kaggle Competitions Expert (Top 1% Worldwide).
 - 1st in Sudan in both Kaggle and Zindi.
 - IELTS With Band 7.0.
 - Awarded a Scholarship to Saudi Arabia.
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PROJECTS

PREDICTIVE MODEL FOR AMERICAN EXPRESS DEFAULT PREDICTION

- A machine learning model to predict the probability that a customer does not pay back their credit card balance amount in the future based on their monthly customer profile.

PREDICTIVE MODEL FOR FOSSIL DEMAND FORECASTING CHALLENGE

- A machine learning model to determine as accurately as possible the demand for each individual product, four months into the future.

PREDICTIVE MODEL FOR EVALUATING LANGUAGE KNOWLEDGE OF STUDENTS

- A deep learning model to assess essays according to six analytic measures: cohesion, syntax, vocabulary, phraseology, grammar, and conventions.

RECOMMENDATION SYSTEM FOR A GROCERY STORE

- Building a multi-objective recommender system based on previous events in a user session to predict e-commerce clicks, cart additions, and orders.

PREDICTIVE MODEL FOR NOVOZYMES ENZYME STABILITY PREDICTION

- Building a model to predict the ranking of protein thermostability (as measured by melting point) after single-point amino acid mutation and deletion.

PREDICTIVE MODEL FOR ALVIN SMART MONEY MANAGEMENT

- A machine learning model to classify purchases into 13 different categories, based on transactions data from Alvin.

PREDICTIVE MODEL FOR LADUMA ANALYTICS FOOTBALL LEAGUE WINNERS

- A machine learning model to predict the outcome of a football match, based on historical matches and players data.

PREDICTIVE MODEL FOR LAYER.AI AIR QUALITY

- A machine learning model to predict predict air quality in regions in Kampala, based on satellite radar data from Sentinel 5P.