

FAISAL KALEMA

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TECHNICAL SKILLS

- Python (Numpy, Pandas, Scipy, Matplotlib), SQL, SQLite
- Power BI, Data Visualization, Data Wrangling, Data Cleaning and Munging, Time Series.
- Machine Learning, NLP, Deep Learning, Artificial Intelligence, Computer Vision
- Statistical Analysis and Predictive Modeling using Supervised and Unsupervised learning.
- TensorFlow, Keras, QGIS
- Mathematics

DATA SCIENCE PROJECTS

Age, Gender and Ethnicity detection

- Explored the problem of predicting three attributes related to human face based on a research [article](#) of a Computer Vision group in Zurich.
- Applied Neural Networks for face recognition and feature extraction to detect age, gender and ethnicity.
- Used transfer learning to leverage a pre-trained model to enhance accuracy and obtained 98% accuracy for age and gender and about 55% accuracy for ethnicity due to unbalanced classes.

Flood Detection Through Imagery

- Worked in a team of 3 to build a binary classification and object detection model to classify flood and detect the depth of the flood using Neural networks and transfer learning.
- Obtained an accuracy of about 60% with 1000 images.

Ames Housing Prices

- Participated in a Kaggle competition aimed at identifying which features are best predictors of housing prices in Ames, Iowa.
- Explored the process of Data Cleaning, EDA analysis, Feature Engineering and Machine Learning Modeling to obtain a low Root Mean squared Error.
- Posted a [blog post](#) related to this project on Medium.

Water Quality monitoring with Aerial Drones

- Participated in Hack The Bay & Delta hackathon to make monitoring water quality a reality. Worked along a team of User experience to build a user interface to effectively and intuitively show conditions to inform resource management efforts.
- Incorporated Machine learning to predict water quality based on atmospheric and other factors.
- Leveraged QGIS, Scipy and Matplotlib tools to interpolate and superimpose the contours onto the map.

Subreddit Classification

- Used pushshift's API to query data from two subreddits(Bitcoin and Ethereum) and build classification models to distinguish between the crypto currencies based on their posts/comments.

PROFESSIONAL EXPERIENCE

Tesla, Inc., Production associate.

2019

- Improved production of Tesla Model 3 cars by 30% by initiating techniques on a line that improved efficiency and reduced the run time of production.
- Operated robotic system and complex manufacturing equipment on the line.

EDUCATION

Master of Science in Information Technology(Data Analytics)

2020/2021

Middle Georgia State University, Macon, GA

Data Science Immersive

3/2020 – 6/2020

General Assembly San Francisco, CA

Bachelor of Sciences, Econometrics

9/2012 — 2/2017

Cukurova University, Adana, Turkey

Exchange program(Erasmus) - International Business and Economics

2014

Otto Von Guericke University, Magdeburg, Germany.