MOHAMMED ALEEM

DATA SCIENTIST

PROFILE

Enthusiastic data science fresher with a strong foundation in machine learning , deep learning , tableau , and SQL . Passionate about leveraging data to drive strategic insights and improve business outcomes. Strong problem-solving skills and ability to communicate complex ideas effectively. Eager to contribute to a dynamic team and make a positive impact in the field of data science.

CONTACT

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EDUCATION

SCHOOL 2014

st.Alphonasa's High School

INTERMEDIATE 2014 - 2016

Sri Chaitanya Junior College

BACHELORS & MASTERS 2016 - 2021

Amjad Ali Khan College of Business Administration

(BBA + MBA)

SKILLS

MACHINE LEARNING

- Model evaluation
- Feature engineering
- Model selection
- Model tuning
- Data Wrangling
- Statistical Analysis
- Regular Expressions
- Web Scraping

DEEP LEARNING

- Artificial Neural Networks
- Convolution Neural Networks
- Recurrent Neural Networks
- Transfer Learning

LANGUAGES

- Python
- SQL

DATA VISUALIZATION

- Tableau
- libraries (matplotlib , seaborn)

LIBRARIES

numpy , pandas , tensorflow , keras , scikit - learn , regex , scipy , nlp , gensim , beautiful soup , imblearn

C E R T I F I C A T I O N S

SIMPLILEANRN's DATA SCIENCE AND BUSINESS ANALYTICS MASTERS PROGRAM

- Machine Learning certification
- Deep Learning certification
  (Tensorflow and Keras)
- Tableau certification
- Capstone certification
- SQL certification

P R O J E C T S

HR Analytics :

Developing a robust HR predictive analytics model leveraging machine learning techniques to identify employees with high potential for promotion . Balancing the data and using metrics like recall along side f1-score to compare between the models developed relative to the problem statement . Got two models with almost same f1-score then considered the recall metric to select between those two .

Fake News

Detecting fake news using tensorflow and gensim . defining an array of values to words using gensim and developing a deep learning model using word-embeddings layer with weights defined through gensim , convolution1D , LSTM and a Dense layer .

Pneumonia detection

Developing a deep learning model to detect pneumonia using the transfer learning technique . using different architectures combined with the pretrained models like vgg16 , ResNet , inception V3 and using the recall metric to select among best models along side accuracy .

Anomaly detection

Building a model that can detect abnormality in the electrical impulses generated that are responsible for pumping of heart there by checking the heart beat rate .
creating a class having a structure of an autoencoder with seperate methods for encoder and decoder defined and using a value as threshold above which the values are considered as anomaly .

Query Domain Classification

Developed a model that can read the query from a user and predict the domain of query . using the nltk library to balance the dataset by replacing the words in sentences with their synonyms and coming up with new similar sentences .
creating a matrix using tfidf vectorizer and training with individual and combination of models

Mango Leaf Disease (ongoing)

images of mango leaves with different diseases are to be trained by the model .
Used custom image generator that can preprocess the images and generate images in batches . defined custom metric , custom loss and custom training loops updating the weights manually .