Contacts

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Key Skills

- Data Visualization
- Predictive Analysis
- Statistical Modeling
- Web Scraping
- Data Preprocessing
- Clustering and Classification
- Machine Learning and Deep Learning
- Natural Language Processing

Technical Skills

TOOLS

- Python
- Jupyter Notebook
- Visual Studio Code
- Google Colab
- Pycharm
- Office suite

PACKAGES

Scikit-Learn, Numpy, Pandas, TensorFlow, Seaborn, Matplotlib, OpenCV, Neattext, NLTK

Muhammad Yasin

Machine Learning Engineer

SUMMARY

- Over 1 Year of Experience **in Data Science** and **Machine Learning**.
- Two **Research Articles** are in process of being published. Currently working on fourth
- Exposure in building data models, **data preprocessing**, data visualization, and applying ML and DL concepts using python
- Experience and Extensive Knowledge in python with libraries Such as **Tensorflow**, **Scikit Learn**, Seaborn, Pandas, Numpy, **NLTK.**

EXPERIENCE

AI lead

Microsoft Campus Program | Sept 2020 - Aug 2021

- Arranged multiple seminars online and at the City University of Science and Information Technology.
- One specific seminar was about "Impact of AI on everyday Life".

EDUCATION

- Bachelor of Science in Computer Science

2017 - 2021 | City University of Science and Information Technology

ML Algorithms

Random Forest, LightGBM, XGboost, CatBoost, Decision Tree, Naive Bayes, Logistic Regression, Support Vector Machine, Linear Regression, Linear Discriminant Analysis, K Nearest Neighbors

DL Algorithms

ANN, RNN, CNN, LSTM, BiLSTM, Attension Model, BERT, YOLO, Image Segmentation, Encoder Decoder

Natural Language Processing

Word Embeddings, Word2Vec, Glove, Tf-idf, Count Vectorizer, Bag of Words, Sentiment Analysis

Web Development

HTML, CSS, JavaScript, Bootstrap, PHP, MySql

Hobbies

Playing Video Games, Playing Cricket, Computing

PROJECTS AND RESEARCH

Gender Recognition Using Voice Data (Research, FYP)

- The objective of this project is to correctly **classify** a persons gender based on voice.
- In this project I performed **Empirical Evaluation** between **Eleven classifiers** using Cross Validation Technique.
- Results indicated better performance of ensemble techniques i.e. **LightGBM** and **XGBoost**.
- Two **Research articles** are in process of being published from this research project.

Emotion Recognition from Text using ML and DL Models (Research)

- In this research project, **Empirical Evaluation** is performed between ML and DL Models.
- The analysis is done using three ML and three DL models on **four datasets** using four different **feature extraction** techniques.
- Embedding Techniques utilized are **GloVe** and **Word2vec.**
- **Evaluation Metrics** used are accuracy, precision, recall, f-measure, and AUC.
- One **research article** is currently being peer-reviewed and currently I am working on a **Survey.**

Face Mask Detection from images

- The objective of this project is to detect if a person is wearing a mask or not using the image dataset.
- This project is developed using **Haar Cascade** frontal classifier and **YOLO** pre-trained files
- Training of model is done using **Convo2d** layers.
- While testing models, YOLO performed better as compared to Haar Cascade.

Sarcasm Detection using NLP

- The objective of this project is to classify given sentence as sarcastic or non-sarcastic using **Word Embeddings** and **LSTM** Technique
- Two Word Embedding Techniques are utilized i.e. GLoVe and Word2vec.
- LSTM model is trained on the sequences with the **embedding matrix**.
- Performance Metrics used are Accuracy, binary_crossentropy.