NADEEM

DATA SCIENCE | ML | AI

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To Work in a Firm with a Professional work driven environment where I can utilize and apply my knowledge and skill which would enable as a fresh graduate to grow and discover my limits and strengths, while fulfilling organizational growth.

EDUCATION

International School of Engineering [INSOFE].
PGP in DATA SCIENCE.
[2019 – 2020]

Visvesvaraya Technological University [VTU].
B. Tech – Electrical and Electronic Engineering.
[2014 – 2018]

- **Research Publication | Link |**

- **Role and Responsibilities:**

  • Designing and building impactful Machine Learning, Deep-Learning solutions for business use-cases.
  • Actively researching about the latest AI, ML and DS techniques.
  • Data Analysis, EDA, Preprocessing, Visualization for smooth processing into the ML projects.
  • Text Mining, NLP, Web-Scraping.

- **Cloud Vendors** GCP (Google), AWS.
- **Programming** Python, R-Programming, SQL.
- **ML Frameworks** Sci-kit Learn, TensorFlow, Keras.
- **Visualization** Tableau, R-Studio, Plotly, Matplotlib.

- **Machine Learning**
  - Traditional Machine Learning Algorithms.
  - Convolutional Neural Network.
  - RNN (LSTMs and GRUs).
  - Recommender System.
  - Generative Adversarial Network (GAN).
  - NLP, Deep Learning.
- **Data Structure and Algorithm.**

COURSES

Applied Machine Learning in Python [University of Michigan] {Cousera}. | Link |

Google Cloud Platform Big Data and Machine Learning Fundamentals [Google Cloud] {Cousera}.| Link |

Introduction to Internet of Things and Embedded System [University of California] {Cousera}.| Link |

Data Science [Johns Hopkins University] {Cousera}.| Link |

Deep Learning [Deeplearning.ai] {Cousera}.| Link |

Advance Data Science with IBM [IBM] {Cousera}.| Link |

KEY PROJECTS

Classification
Model
Automobiles

Predict Severity of Airplane Accidents. More

- **Problem Statement:** Predict Severity of airplane accident using 'Accident ID'. Required to build Machine Learning models to anticipate and classify the severity of any airplane accident based on past incidents.
- **Solution Implementation:** To analyze and implement multiple algorithms and determine which is more appropriate for a problem. Preprocess and clean the data for modeling. Train a classification model using Logistic Regression, SVM, Random Forest, XGBoost, AdaBoost, Decision Tree, Bagging Classifier, Voting Classifier.
- **Impact:** Above model was used to get the Model Predication.

NLP, CNN,
LSTM
Network Media & News

News Category Classifier More

- **Problem Statement:** This dataset contains around 200k news headlines from the year 2012 to 2018 obtained from HuffPost. The model trained on this dataset could be used to identify tags for untracked news articles or to identify the type of language used in different news articles.
- **Solution Implementation:** Categorization based Natural Language Processing, that would perform localization and recognition of text and categorize. Train a Classification Model using Text CNN, Bidirectional GRU + Convolution and LSTM.
- **Impact:** Developing a highly accurate and a small-size model that can easily be deployed.

Classification
Model
Retail Industry

Predict if the Merchant is Fraudster or not for an e-commerce client More

- **Problem Statement:** A large e-commerce company with its operations in several countries. As the online giant grows, so has the number of fraudster merchants also grows.
- **Solution Implementation:** Expected to create an analytical and modelling framework to predict the Merchant Fraudulency(yes/no) based on the quantitative and qualitative features provided in the dataset, Train classification Models used Logistic Regression, Decision Tree, Gradient Boosting, SVM, XGBoost.
- **Impact:** Developed a good Model to achieve the classification of identifying the Merchant is a Fraudster.

Stacked
Regression
Real Estate

House-Price Prediction More

- **Problem Statement:** To build a custom machine learning model for one of the leading real estate industries in the world. The custom model includes the multiple classes to be classified with different condition.
- **Solution Implementation:** Developed a Stacked regression to predict the house price. Perform different mathematical and different techniques to solve the problem. Create a Stacked model to see the performance of the model.
- **Impact:** Above model was used to get the best prediction of the houses.

Time Series
Retail Industry
Business
Forecasting

Business Forecast -LTFS More

- **Problem Statement:** To Forecast the business to build a custom model of Two segments, that would take which segment would be more in time.
- **Solution Implementation:** Tried out various traditional machine learning time series models. Finally implemented Holt-Winters.
- **Impact:** Above model was used to get the Prediction with segment and application-id for various case-counts related to business.

Classification
Image Based
Health-care

Chest X-rays based Pneumonia Classification More

- **Problem Statement:** To identify Pneumonia by using Chest X-ray's, classify infected vs normal chest X-ray's using the images of the chest X-ray's.
- **Solution Implementation:** Developed a model for classifying the chest X-ray's. Selected model employs MonkAI based word embedding fused and passed into datasets, followed by Transfer Learning. This is then passed through a Resnet modelling and Densenet modelling.
- **Impact:** Above model was used to get level from various X-rays, reports followed in a chest X-ray's, provided by the client.