Naresh Muthumula

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https://github.com/muthumula1999/ML.git
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SUMMARY

An result oriented professional with nearly 1 year of experience in data analytics design and development, seeking a quality environment that will serve as a platform to learn and enhance my skills where on my knowledge and experience can be shared and enriched.

Technical Skills:

Programming Languages:

- Python
- MySQL
- TensorFlow
- OpenCV

Knowledge in Technology:

- Data Analysis with Pandas, NumPy
- SQL Queries Joins, Nested Queries
- Data Visualization with Seaborn, Matplotlib
- Statistics with Hypothesis test, KS-test, Confidence Interval
- Machine Learning with Python (Linear Regression, Logistic Regression, K Means Clustering, PCA, Decision Tree, Random Forest, Bayesian)
- Ensemble methods Bagging, Boosting and Stacking
- Deep Learning with TensorFlow and Keras (Neural Networks, CNN, LSTM, Transfer Learning, GAN's, Transformers, BERT)
- Depth Knowledge in Probability and Statistics
- Cloud Technology AWS
- Image pre-processing with OpenCV
- Neural Network Architecture Design with TensorFlow and Keras
- Image Classification using Convolution Neural Network
- Alex Net, VGGNet, Residual Network
- Image Segmentation using UNet and CANet
- Application Programming Interface with Flask
- Docker container
- MongoDB Queries
- Web Scrapping (Beautiful Soup)

Professional Experience:

Worked as **Data Analyst** in **BEAWEL TECH PRIVATE LIMITED** from **November 2020 Till Date.**

- Having close **one-year** Experience in the area of Data Analysis
- Able to perform in data analysis by using Seaborn, Matplotlib
- Able to perform in data analysis by writing complex SQL
- Able to Create Algorithms from scratch
- Proficient in writing Python Scripting
- Sound Knowledge in Python Scripting for Data Extraction and Data Analysis
- Model creation checking performance
- Patterns finding in data by visualization and Analysis of data
- Able to Create Data Pipeline
- Knowledge create Application Interface for model to Deployment
- Knowledge AWS EC2 Instants
- Having working experience with Agile methodology

Projects:

Seoul Bike Trip Prediction Using Machine Learning
Duration - Nov 2020 – Till Date

The objective is to predict a trip duration, which is happening in Seoul city by taking few inputs and it predicts how much time it takes to complete the trip and also give deviation from the predicted value

Approach Data from bikeseoul then convert data to time series later I did EDA, pre-processing data, then Time Series Modelling and Complex Modelling finally pick one of model based on performance metric later deployed in EC2 instance in AWS

Algorithms Moving Average, Weight Moving Average, Prophet, VAR, SVR, XGB Regressor, Clustering, LSTM

Tools Python, Scikit-learn, Pandas, Seaborn, Matplotlib, Flask, HTML, AWS

Website http://ec2-100-25-0-207.compute-1.amazonaws.com:8080/index

Blog https://seoulbiketrip.blogspot.com/p/seoul-bike-trip-prediction-using.html

Roles & Responsibilities

- Data gathering from bikeseoul
- Data visualization using seaborn, Matplotlib and Plotly
- Data Cleaning using pandas and NumPy
- Create Pipeline for model
- Deploy the model in AWS

Quora Question Pairs using Machine Learning

Duration - Aug 2020 – Nov 2020

The objective is to predict given two Questions are the same questions or different question, if they are similar then the output True else False

Approach	I got data from Kaggle, check missing data, Duplicates and then Convert text data to vector form by using Bag of Words, TF-IDF, Word2Vec then check different Classification models, finally stick to model-based on performance
Algorithms	Logistic Regression, Naive Bayes, XGB Classifier, BERT
Tools	Python, Scikit-learn, NLTK, Pandas, Seaborn, Matplotlib, word cloud, TensorFlow
Links Code	https://github.com/muthumula1999/ML
Roles & Responsibilities	• Data Cleaning using python and RegEx • Converting text to vectors using scikit-learn • Data visualization using Word Cloud, Seaborn • Create Pipeline for model

Educational Details:

2016-2020	**B. Tech,** in Electronics and Communication Engineering, Acharya Nagarjuna University, Guntur, India with CGPA **8.0/10.**
2014-2016	**INTERMEDIATE (MPC)**, from Board of Intermediate Education AP, with **95.8%.**
2013-2014	**Class X**, ZPH School, in AP with CGPA **8.3/10.**

Personal Information:

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- **Date of Birth** : **08/05/1999**