Faizanuddin Mohammed Siddique

Data Scientist, Machine Learning Engineer

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Kaggle :https://www.kaggle.com/faizansiddique

Github: https://github.com/Faizan-Siddique

Certified Data Scientist familiar with gathering, cleaning and organizing data for use by technical and non-technical personnel. Advanced understanding of statistical, algebraic and other analytical techniques. Highly organized, motivated and diligent with significant background in Python , Machine Learning, Data Analysis EDA , Web Scraping and Deep Learning.

Skills

Programming Languages : Python and Libraries, Tensorflow,Keras,Scikit Learn,Matlab	Very Good
Databases : PostGreSQL	Very Good
Data Visualization : Tableau, MS-Excel	Very Good
Machine Learning/Deep Learning :Decision Trees,Logistic Regression,Random Forest , Xgboost, Gradient BoostingNaive Bayes,SVM,ANN,CNN,RNN ,ResNet Algorithms	Very Good
Web Scraping : Scrapy, Splash ,Selinium ,Beautiful Soup	Very Good

Work History

2017-02 - Current

CAE Engineer

Applus Idiada, PUNE, Maharashtra

- Meshing and include preparation of assemblies.
- Coordination of meshing activities with the counterparts along with estimation, final checks and delivery of projects within stipulated time.
- Static Durability and Thermal CAE analysis in Abaqus.
- Applied Machine Learning Algorithms for estimation of crush box thickness for frontal Crash analysis.
- Python Scripting in ANSA for process automation.

Education

2020-06 - 2021-03

Spring Board Data Science Career Track: Data Science And Machine Learning

Spring Board - Bangalore

Currently undergoing a 11 month intensive Data Science Career Track that includes 650+ hours of hands-on curriculum, with 1:1 industry expert mentor oversight, and completion of 3 in-depth capstone projects. Mastering skills in Python, SQL, Data Analysis, Data Wrangling,Data Visualization, Hypothesis Testing, Machine learning, Deep Learning.

2010-07 - 2014-08

Bachelor of Engineering: Mechanical

MESCOE - Pune

Certifications

2021-03 Spring Board Data Scientist Certification

2021-02 Datacamp Machine Learning Career Track

Languages

English,Hindi,Marathi,Urdu,Arabic

Very Good

Projects

1) Mercedes Benz Greener Manufacturing To Reduce Testing Time Of Vehicles

The aim was to predict the testing time of vehicles based on 384 Testing parameters, resulting in speedier testing and lower Carbon dioxide emissions.

Technologies Used: Python, Lasso and Ridge CV, Random Forest, XGboost

- Performing EDA and Feature Engineering to select the most important Features to Build the Model
- Feature Scaling and dimensionality reductions based on correlation Matrix and Variance.
- Using Machine learning algorithms to predict testing time using R2 Score as Metrics and plotting Feature importance.
- Hyperparameter Tuning of Models to increase the Model predictability on Testing Dataset.

Github Link : https://github.com/Faizan-Siddique/Capstone_Project_1/blob/main/Unit_18/Capstone_Project_2_Mercedez_Benz_Testing.ipynb

2) Steel Corrosion Defects Classification and Segmentation

The aim was to classify Steel corrosion defect in an image as a defect or no defect furthermore if found defective classifying into 4 classes of defects
and segmentation of the defect in the image with the help of a Mask.

Technologies Used: Python, Deep Learning, Resnet CNN, ResUnet, Image Augmentation.

- Data visualization using RLE mask encoding of pixels.Analysis of Defects Using Countplots.
- Image classification using Transfer learning and Resnet CNN for pixel-level classification.
- Image segmentation into multiclass defects for defective images and localization of defects using ResUnet

Github Link :
https://github.com/FaizanSiddique/Capstone_Project_3/blob/main/Capstone_3_Steel_Defects_Classification_Segmentation_Final_01.ipynb