Zafar Mahmood Waris

Data Scientist | Software Engineer

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WORK EXPERIENCE

<u>Graduate Engineer Trainee</u> Endurance Technologies Pvt. Ltd

08/2020 - 03/2021

Tags: Auto Gauging Machine, VMC, Report Preparation, Auditing

- Performed gauging operation on auto gauging machine and inspection table and report to plant head if any discrepancy found
- Prepared total production reports on the given shift and maintained paperwork for further audit.
- Checked for any discrepancy in the reports and tried to keep it to a minimum

CAE Engineer Simulation Lab

07/2022 - 09/2022

Tags: Electric Vehicles BTMS, Ansys Workbench, Ansys Fluent

- Performed daily tests on Battery Thermal Management System of Electric Vehicle using a cooling fluid
- Applied and tested the BTMS on various cooler temperature to analyse the rise and fall in temperature of the cooling fluid after passing through the battery surface

PROJECTS

Health prediction app with chatbot using NLP and deployment(Ongoing)

Customer Segmentation using K-means

Tags: K-means, Unsupervised learning, Silhouette and elbow score

- Built a clustering model using **K-means** to identify major customer segments on transaction dataset.
- Obtained optimal number of clusters using Silhouette score, elbow score and visual inspection of Dendrogram resulting from Hierarchical Clustering.
- Generated optimal customer clusters which could be further used in various use cases like customer targeting, marketing campaigns, etc.

Live Emotion Detection using Webcam

Tags: Deep Learning, Computer Vision, Image Preprocessing, OpenCV

- Built an app that detects emotion from live feed through webcam and provide real-time aggregated feedback about the person.
- Employed Image Data Generator to built train and test dataset of images.
- Built a neural network using CNN from scratch for feature processing.
- Used different optimizers such as Adam, RMSProp and SGD and built the final model with Adam with highest accuracy.
- Employed early stopping to reduce computation time once an optimized model is produced.
- Used OpenCV library to provide live feed through the webcam to the emotion detection app.

TECHNICAL STACK

Data Science/Machine Learning/Deep Learning

Python, Data Preprocessing, Data Visulaization, Supervised Learning algo, Unsupervised Learning algo, ANN, CNN, RNN, EDA, Feature Engineering

Languages

Python, SQL, NoSQL, HTML, CSS, JavaScript(Basics)

Software Frameworks and Libraries

Numpy, Pandas, Sickit-Learn, Matplotlib, Seaborn, Tensorflow, Keras, Django, OpenCV, NLTK, Hugging Face, BeautifulSoup, Scipy

-Tools and Platforms

Power BI, Jupyter, GIt, Colab, Kaggle, Netlify, Git, AWS, Docker

-Mathematics for ML and DL

Algebra, Calculus, Probability, Statistics, Matrices

Databases

PostgreSQL, MySQL, Redis, MongoDB, SQLite

CERTIFICATIONS

Scientific Computing with Python - freeCodeCamp(10/2022)

Machine Learning with Python - freeCodeCamp(10/2022)

ACHIEVEMENTS

Machine Learning Badge (2022)

Python Badge (2022) LinkedIn

EDUCATION

B.Tech - Mechanical Engineering GNIOT, Greater Noida

2015 - 2019, 68.8%

XII- Higher Secondary Woodbine Modern School

2014-2015, 79.8%

COURSEWORK

Data Structures and Algorithms System Design Cryptography Operating Systems

SOFT SKILLS

Fast Learner, Leadership, Optimistic, Communication Skill, Time Management