Zafar Mahmood Waris

Data Scientist | Software Engineer

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WORK EXPERIENCE AND ACHEIVEMENTS

Graduate Engineer Trainee
Endurance Technologies Pvt. Ltd

08/2020 - 03/2021

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

CAE Engineer
Simulation Lab

07/2022 - 09/2022

Tags: Electric Vehicles BTMS, Ansys Workbench, Ansys Fluent

Software Engineering Virtual Experience
JP Morgan Chase & Co

10/2022-10/2022

Tags: Software Development, Python, Nodejs

Data Analytics Consulting Virtual Internship
KPMG

10/2022-10/2022

Tag: Data Analytics, Power BI, MS Powerpoint, MS Excel

PROJECTS

Flight Price Prediction app with deployment using Django(Ongoing)

Tags: Regression, Ensemble Learning, Django, RandomizedSearchCV

- Built an end to end project for flight price prediction using ML model and deployed it using Django
- Used RandomizedSearchCV for hyperparamater tuning
- Finalized the model using Random Forest Regressor with most accurate predictions.
- Saved the model and using Django framework to deploy it using Heroku.

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.

Emotion Detection App

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

- 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 image feed 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

Blockchain
Ethereum, Blockchain, Solidity, RemixIDE, Metamask, Brownie, Hardhat, Cryptocurrency, NFTs

CERTIFICATIONS

Scientific Computing with Python - freeCodeCamp(10/2022)

Machine Learning with Python - freeCodeCamp(10/2022)

BADGES

Machine Learning Badge (2022)
LinkedIn

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