Vaibhav Ghorpade

Aspiring Data Scientist

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About:

An aspiring Data Scientist with a Post-Graduation in Data Analytics and engineering grad specializing in Mechanical Engineering interested in pursuing a career in Data science with the ability to identify the fine points of data. Well-versed in Machine Learning, Analytical and Predictive Modelling, Deep Learning with expertise in data exploration, data mining, statistical analysis, and data visualization techniques. Additionally, skilled in leadership, public speaking, creative thinking and decision-making.

Education:

2022-2023 **Post Graduation Program in Data Analytics and Machine Learning**
- Imarticus Learning, Pune

2017-2021 **Bachelor in Mechanical Engineering (8.83 CGPA)**
- Sinhgad College of Engineering, Pune

2015-2017 **H.S.C. (78.77%)**
- R. R. Shinde Jr. College, Pune

2014-2015 **S.S.C. (95.00%)**
- Jijamata High School, Jejuri

Internship:

Dec. 2019 **ISMT Ltd. Jejuri**
Role: Data Analyst Intern
Responsibilities: Analysis of Vibration data gathered from machines to diagnose and conduct preventive maintenance

Capstone Projects:

- **End to End Ultimate Tensile Strength Prediction of Austenitic steel**

Objective: To improve UTS Prediction accuracy to minimize material testing cost and optimize product performance using MAP Steel Data
Work: Data Mining, Data Cleaning, Exploratory Data Analysis, Pre-processing, Model Building, Hyper Parameter Tuning, Deployment using AWS
Outcome: Achieved accuracy of 95.15% using XGBoost Regression model

- **Surface Defect Detection of Ball Screw Drive using Vgg19 Image Classification**

Objective: Detection and classification of 150×150 Pixel RGB Image of Ball Screw drive showing defects using KIT Open Data
Work: Data Pre-processing, resizing, Normalization, Model Building
Outcome: Achieved Accuracy of 97.2%

- **HDFC Bank Stock Price Prediction using LSTM and Sentiment Analysis**

Objective: To predict the future stock prices of HDFC Bank using LSTM neural network and sentiment analysis calculated from newspaper articles.
Work: Sentiment Score calculated from TextBlob used as additional feature for LSTM
Outcome: Achieved Root Mean Square error(RMSE) of 0.8094

- **End to End Book Recommendation System**

Work: Project utilizes Machine Learning Techniques to provide personalized book recommendation system based on their Preference, taste and behaviour based on rating system and collaborative filtering using 242135 books data.

- **Telecom Customer Churn Analysis using Tableau Dashboard**
- **Report on India Tourism 2021 using PowerBI Dashboard**

Skills:

- **Programming Language** (Python, SQL, C++, HTML, CSS)
- **Cloud** (AWS)
- **Packages** (Numpy, Pandas, Scikit-Learn, Tensorflow, OpenCV, Scipy, keras)
- **Machine Learning** (Linear Regression, Logistic Regression, Decision Tree, KNN, Support Vector Machine, Random Forest, Clustering, K means, Unsupervised Algorithms)
- **Deep Learning** (ANN, CNN, RNN, Computer vision, LSTM)
- **Data Reporting Tools** (PowerBI, Tableau, Matplotlib, Seaborn, Excel)
- **Natural Language Processing** (NLTK, Spacy, TF-IDF)
- **Web scrapping** (BeatutifulSoap, Selenium)
- **IDLE** (Jupyter Notebook, Google Colab, PyCharm)
- **Statistical Methods** (Predictive Analysis, Hypothesis testing, PCA, Text Analytics, Univariate and Bivariate analysis)
- **Big Data tools** (Hadoop, Spark, Hive)

Achievement:

- **NMMS Scholarship** Govt. of India
- **Auto Drift Event**
  College of Engineering, Pune
- **Imarticus Data Science Hackathon by KPMG Skillenza**

Extra-Curricular:

AWS Innovate Data & AI/ML Edition 22/02/2023
- Gained insights into model monitoring, management, and updating strategies

Interest:

Car Enthusiast | Blogging | Reading

Languages:

English | Hindi | Marathi (R/W/S)