Capstone Project Submission

Contributers

Paras

* Data Discovery - Data import, data description , understanding variables.
* Data Wrangling - removing unnecessary columns , null values imputation
* Exploratory Data Analysis - bar charts, pie charts, scatterplots , histograms etc.
* Model building - encoding, model training, model evaluation, hyperparameter tuning.

Github Link

<https://github.com/ParasChopra611/AlmaBetter/tree/main/module%206>

Google Drive link

<https://drive.google.com/drive/folders/127G5NCpZ4nnn6A-6AqbBmaESXEy_VOB9?usp=sharing>

Summary

We are given a dataset of 8760 rows & 14 columns that we are going to use for analysis & model building. Our objective is to find the key insights from the data using exploratory data analysis & statistical analysis if required Then we will proceed to creating a machine learning model & hyperparameter tuning after evaluating the best model to predict the demand of rent bikes. This will help the businesses make better decisions & predict the bike demand so that the businesses can make more profits.

The project is divided into several parts mentioned below ➖

Data Discovery - In this step we import data & understand the data, its variables, values etc

Data Wrangling - In this step we modify the data so that it becomes ready for next procedures

Exploratory Data Analysis - in this step we create a bunch of charts & graphs to gain insights on the dataset that can help us making better decisions for our rental business.

Model Building - in this step we will try multiple machine learning models & test it to choose the best one. We will also do hyperparameter tuning to find the best parameters for our selected model.