Student Information:

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Information about Industry/Organization:

Industry/Organization Name with full Address	Internshala Training (Online Mode)
Contact Person	Name & Designation: Servesh Agrawal Mobile/email:

Project Information:

Title Of Project/Training/Task	forecast hourly bike rental demand
Role & Responsibility	Full project
Technical Details	Hardware Requirements: i5 processor-based computer 2GB RAM (minimum) Software Requirements: Anaconda 3 (Jupyter Notebook) Technology Used: Machine Leaning(Linear Regression Model,Decision Tree) Data Science(Basics) Python modules(Numpy,pandas,matplotlib.pyplot, seaborn)
Training Implementation Details	Fully Implemented
Training Period	Start Date:1st June, 2020 End Date:13th July, 2020 Duration Of Training (In Weeks): 6 weeks

Summary of the Training Work:

About project:

It is Bike sharing systems are a means of renting bicycles where the process of obtaining membership, rental, and bike return is automated via a network of kiosk locations throughout a city. Using these systems, people are able to rent a bike from one location and return it to a different place on an as-needed basis. Currently, there are over 500 bike-sharing programs around the world.

The data generated by these systems makes them attractive for researchers because the duration of travel, departure location, arrival location, and time elapsed is explicitly recorded. Bike sharing systems therefore function as a sensor network, which can be used for studying mobility in a city

Datasets:

train.csv : Use this dataset to train the model. This file contains all the weather related features as well as the target variable "count". Train dataset is comprised of first 18 months.

test.csv : Use the trained model to predict the count of total rentals for each hour during the next 6 months.

In this project, we combine historical usage patterns with weather data in order to forecast hourly bike rental demand.