# **Link to the Tableau Dashboard:**

**The link is given below:**

<https://public.tableau.com/views/DSTS_Assignment_1/Dashboard2?:language=en-GB&publish=yes&:sid=&:redirect=auth&:display_count=n&:origin=viz_share_link>

# **Results of the Regression and Classification**

## **Results for the Regression Models**

|  |  |
| --- | --- |
| **Model Name** | **Mean Square Error** |
| Regression Model 1 (linear regression) | 0.1323876442737592 |
| Regression Model 2 (SGD Regressor) | 1.4281444829959446e+22 |
| Regression Model 2 with scaled data (SGD Regressor with Scaled Data) | 0.13287898284637378 |

## **Results for the Classification Models**

|  |  |
| --- | --- |
| **Model Name** | **Accuracy** |
| Logistic Classifier | 0.844755774327906 |
| KNN Classifier | 0.8848920863309353 |
| Decision Tree Classifier | 0.9121544869367664 |
| Random Fores | 0.8928436198409694 |

# **List of Commands to create and push the docker image to the docker hub**

Step 1: Building the Docker Image

docker build -t dsts-assn-1 .

Explanation of the code:

This code tells docker to build an image, the image is tagged as dsts-assn-1

Step 2: Listing Docker Images

docker images

Explanation of the code:

The command lists all the docker images, including repository name, tag and image ID, creation date and size.

3. Tagging the Docker image

The image is tagged so it can be pushed to Docker Hub under the repository

docker tag 2df631e5c771 thebigtmz/dsts-assn-1

Explanation of the code:

Tags the image with the new name

The image ID of the image which needs to be tagged

4. Logging into Docker Hub

This command logs users into docker hub

docker login

<https://hub.docker.com/r/thebigtmz/dsts-assn-1>