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For this dataset, I tried to classification the variety of the Iris based on the Sepal Length/Width and Petal Length/Width.

For the Jupyter Notebook.

1, I load the Iris data set

2, I check the data set, review the columns and data type of the dataset

3, I make the Sepal Length/Width and Petal Length/Width in to a Feature Vector

4, I make index of the label of Variety

5, I combine the Feature Vector with the indexed Label, as a dataset for Training and Testing

6, I divided the Dataset as 75% for training and 25% for testing

7, I use the Logical Regression to train the model with the training dataset

8, I test the Test Dataset with the model, and get the accuracy value.

For the Dashboard

I used Tableau to perform the work.

1, I load the data to Tableau

2, I create a WorkSheet to display the Variety relationship between Sepal Length and Sepal Width.

   2.1 I put the Petal Length as dimension in column part

   2.2 I put the Petal Width as dimension in row part

   2.3 I put the Variety in Mark part, and choose the color for marking

   2.4 I choose ShowMe as scatter plots

3, I create a WorkSheet to display the Variety relationship between Petal Length and Petal Width.

   3.1 I put the Petal Length as dimension in column part

   3.2 I put the Petal Width as dimension in row part

   3.3 I put the Variety in Mark part, and choose the color for marking

   3.4 I choose ShowMe as scatter plots

4, I create a WorkSheet to display the counter of each Variety, to check if the dataset has some bias or not.

   4.1 I put the Count of Variety in Column Part

4.2 I put Variety in Row Part

4.3 I put the Variety in Mark part, and choose the color for marking

4.4 I choose ShowMe as Horizontal Bar

5, Finally, I create a Dash board to Combined all the above WorkSheets

5.1 I add Horizontal Widget to the Dash Board first

5.2 I choose the Petal and Sepal sheet, and added them to the Horizontal Widget

5.3 I add Vertical Widget to the Dash Board then

5.4 I add the Count Variety sheet to the Vertical Widget

5.5 I add another Horizontal Widget to the Dash Board

5.6 I add the selection of the variety to the Horizontal Widget

5.7 I add a Vertical Widget to the Dash Board

5.8 I add a Text to the Vertical Widget, and enter the Title of the Dash Board.

Done