

# FIND THE SPECIES OF FLOWERS

## DESCRIPTION:

- The purpose of this report is to find the details of petals of different species of flowers and find out that new flower will fall in which category by past analysis.
- We will understand about each petal features and segregate species according to that
- We have data of all flowers with their species for analysis.
- Using this data, we will find average length of each sepal, average length of each petal, count of each species in data etc.

By all these analysis we will get clear picture and we can easily decide the species of any flower.

## STEPS TAKEN TO CLEAN THE DATA:

- Imported data to Google sheet.
- Filter rows by null value. By this all empty rows will be appeared. Deleted all empty rows
- Removed all duplicated values to find unique results.
- Give concise headers to make it more understandable.
- Replace few values with better values.

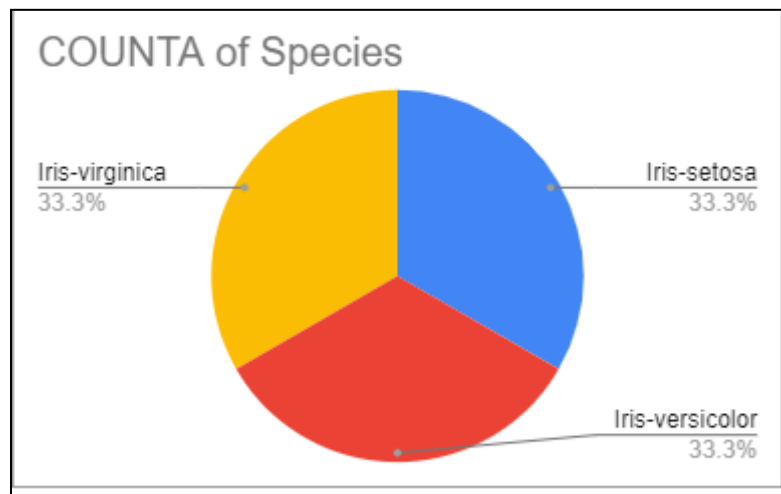
## VISUALISATION TOOLS USED:

- **Google Charts** - To show different tables/pivots with their results in pictorial manner.
- **Tableau** – For better understanding of data and for finding relationships between columns/attributes of tables. Moreover, we used tableau for better pictorial representation.

## FINDINGS:

- **Count of each species.**

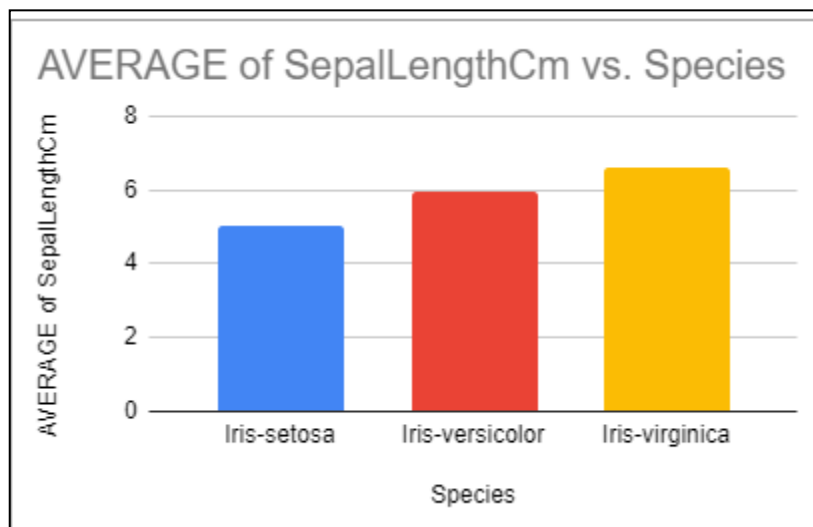
Species	COUNTA of Species
Iris-setosa	50
Iris-versicolor	50
Iris-virginica	50
<b>Grand Total</b>	<b>150</b>



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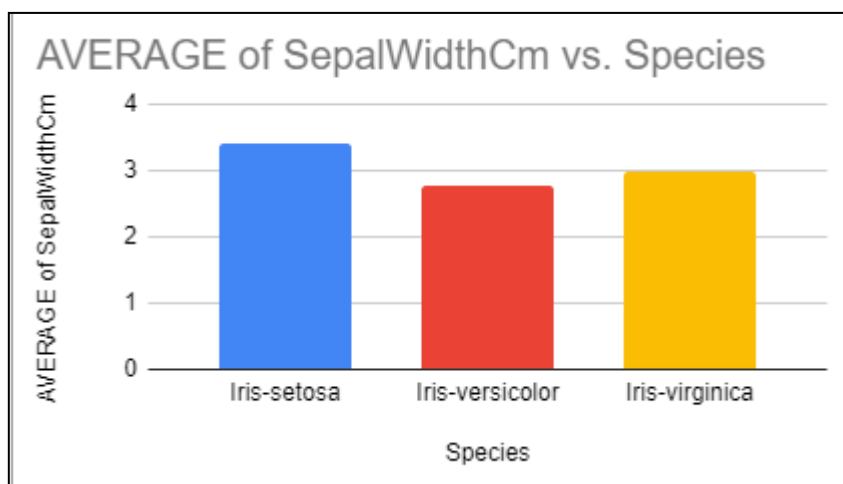
- Average length of sepal in cm

Species	AVERAGE of SepalLengthCm
Iris-setosa	5.006
Iris-versicolor	5.936
Iris-virginica	6.588
<b>Grand Total</b>	<b>5.843333333</b>



- Average width of sepal in cm

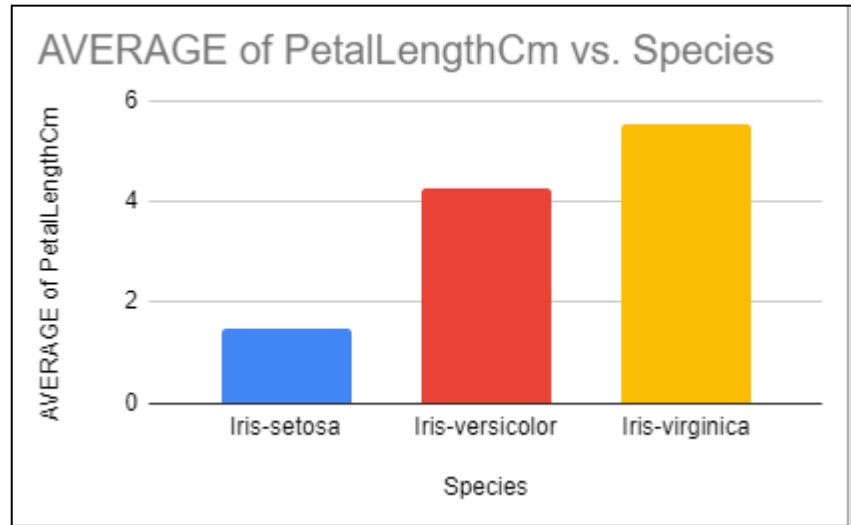
Species	AVERAGE of SepalWidthCm
Iris-setosa	3.418
Iris-versicolor	2.77
Iris-virginica	2.974
<b>Grand Total</b>	<b>3.054</b>



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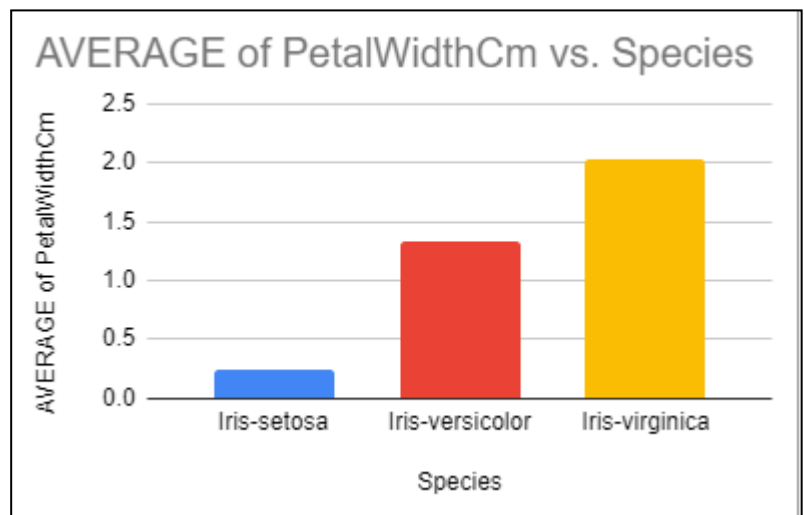
## ➤ Average length of petal in cm

Species	AVERAGE of PetalLengthCm
Iris-setosa	1.464
Iris-versicolor	4.26
Iris-virginica	5.552
<b>Grand Total</b>	<b>3.758666667</b>



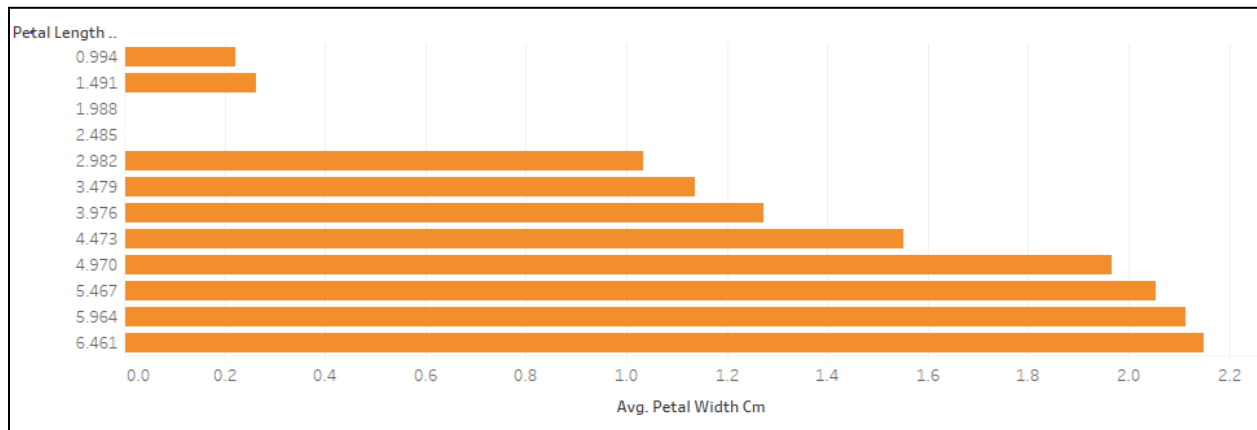
## ➤ Average width of petal in cm

Species	AVERAGE of PetalWidthCm
Iris-setosa	0.244
Iris-versicolor	1.326
Iris-virginica	2.026
<b>Grand Total</b>	<b>1.198666667</b>



# FIND THE SPECIES OF FLOWERS

## ➤ Average petal width for different petal length



## ➤ Average sepal width for different sepal length



## CONCLUSIONS:

- In data all species are equal.
- Iris-virginica has highest sepal length, petal length and petal width.
- Iris-setosa has minimum sepal length, petal length and petal width.
- All species which has more petal length has more petal width. So graph will be linear increasing.

## SOLUTIONS FOR OUR BUSINESS PROBLEM:

- Since by analysis, we can easily identify that flowers which has high petal length and width can be 'Iris-virginica'.
- Since by analysis, we can easily identify that flowers which has low petal length and width can be 'Iris-setosa'.