ls

cd data

import pandas

import statistics

irises=pandas.read\_csv("iris.csv")

irises

irises["sepal\_length"]

sample=irises["sepal\_length"]

(statistics.stdev(sample))

(statistics.mean(sample))

ls #view available folders

big.csv\* Lorenz.ipynb TCGA\_Data/ Untitled.ipynb

data/ lorenz.py Untitled1.ipynb untitled.txt

jupyterlab.md markdown\_python.md Untitled2.ipynb

jupyterlab-slides.pdf notebooks/ Untitled3.ipynb

cd data

[Errno 2] No such file or directory: 'data'

/home/jovyan/demo/data

#import pandas an open source library

import pandas

#import statistics which allows for easy statistical commands

import statistics

#reading the iris.csv with pandas and labling it as irises

irises=pandas.read\_csv("iris.csv")

#printing the irises data set. Should appear as table

irises

sepal\_length sepal\_width petal\_length petal\_width species

0 5.1 3.5 1.4 0.2 se

1 4.9 3.0 1.4 0.2 setosa

2 4.7 3.2 1.3 0.2 setosa

3 4.6 3.1 1.5 0.2 setosa

4 5.0 3.6 1.4 0.2 setosa

5 5.4 3.9 1.7 0.4 setosa

6 4.6 3.4 1.4 0.3 setosa

7 5.0 3.4 1.5 0.2 setosa

8 4.4 2.9 1.4 0.2 setosa

9 4.9 3.1 1.5 0.1 setosa

10 5.4 3.7 1.5 0.2 setosa

11 4.8 3.4 1.6 0.2 setosa

12 4.8 3.0 1.4 0.1 setosa

13 4.3 3.0 1.1 0.1 setosa

14 5.8 4.0 1.2 0.2 setosa

15 5.7 4.4 1.5 0.4 setosa

16 5.4 3.9 1.3 0.4 setosa

17 5.1 3.5 1.4 0.3 setosa

18 5.7 3.8 1.7 0.3 setosa

19 5.1 3.8 1.5 0.3 setosa

20 5.4 3.4 1.7 0.2 setosa

21 5.1 3.7 1.5 0.4 setosa

22 4.6 3.6 1.0 0.2 setosa

23 5.1 3.3 1.7 0.5 setosa

24 4.8 3.4 1.9 0.2 setosa

25 5.0 3.0 1.6 0.2 setosa

26 5.0 3.4 1.6 0.4 setosa

27 5.2 3.5 1.5 0.2 setosa

28 5.2 3.4 1.4 0.2 setosa

29 4.7 3.2 1.6 0.2 setosa

... ... ... ... ... ...

120 6.9 3.2 5.7 2.3 virginica

121 5.6 2.8 4.9 2.0 virginica

122 7.7 2.8 6.7 2.0 virginica

123 6.3 2.7 4.9 1.8 virginica

124 6.7 3.3 5.7 2.1 virginica

125 7.2 3.2 6.0 1.8 virginica

126 6.2 2.8 4.8 1.8 virginica

127 6.1 3.0 4.9 1.8 virginica

128 6.4 2.8 5.6 2.1 virginica

129 7.2 3.0 5.8 1.6 virginica

130 7.4 2.8 6.1 1.9 virginica

131 7.9 3.8 6.4 2.0 virginica

132 6.4 2.8 5.6 2.2 virginica

133 6.3 2.8 5.1 1.5 virginica

134 6.1 2.6 5.6 1.4 virginica

135 7.7 3.0 6.1 2.3 virginica

136 6.3 3.4 5.6 2.4 virginica

137 6.4 3.1 5.5 1.8 virginica

138 6.0 3.0 4.8 1.8 virginica

139 6.9 3.1 5.4 2.1 virginica

140 6.7 3.1 5.6 2.4 virginica

141 6.9 3.1 5.1 2.3 virginica

142 5.8 2.7 5.1 1.9 virginica

143 6.8 3.2 5.9 2.3 virginica

144 6.7 3.3 5.7 2.5 virginica

145 6.7 3.0 5.2 2.3 virginica

146 6.3 2.5 5.0 1.9 virginica

147 6.5 3.0 5.2 2.0 virginica

148 6.2 3.4 5.4 2.3 virginica

149 5.9 3.0 5.1 1.8 virginica

150 rows × 5 columns

#accessing only one row from the data set

#setting the row to be the sample

irises["sepal\_length"]

sample=irises["sepal\_length"]

#finding the standard deviation of the previously set sample

(statistics.stdev(sample))

0.8280661279778629

#finding the mean of the previously set sample

(statistics.mean(sample))

5.843333333333334