Spearman

# example code

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| # Import list  import pandas as pd  import matplotlib.pyplot as plt  import scipy.stats as stats  %matplotlib inline  #load dataset.  Data = pd.DataFrame(pd.read\_csv("../[01]data\_set/StudentsPerformance.csv"))  # first you need to download data set file. check [01]data\_set/StudentsPerformance\_csv\_download.txt  #Set Columns  Data.columns = ['1','2','3','4','5','math','read','write']  #load dataset\_1.  Data\_1 = pd.DataFrame(pd.read\_excel("../[01]data\_set/Data.xlsx"))  #Set Columns  Data\_1.columns = ['sales','result']  # Recommended for use in Jupyter Notebooks  #Set Graph data.  plt.figure(figsize=(10, 10))  plt.scatter(Data.math, Data.write)  plt.xlabel("math")    #label set  plt.ylabel("read")  plt.grid()  plt.show()  plt.figure(figsize=(10, 10))  plt.scatter(Data\_1.sales, Data\_1.result)  plt.xlabel("sales")    #label set  plt.ylabel("result")  plt.grid()  plt.show()  #calculate spearman result.  spearman\_mw = stats.spearmanr(Data.math,Data.write)  spearman\_sr = stats.spearmanr(Data\_1.sales,Data\_1.result)  print("spearman result \n math-write ")  print(spearman\_mw)  print("spearman result \n sales-result")  print(spearman\_sr) |

# testing result

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| spearman result  math-write  SpearmanrResult(correlation=0.7783385899971924, pvalue=5.853058974157784e-204) spearman result  sales-result  SpearmanrResult(correlation=0.4453938776124895, pvalue=0.22958028011477294) |

