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CPSC-552

Assignment 1 – Terminal Output

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| dustinkeller@Dustins-Air assignment1 % /usr/bin/env /Library/Frameworks/Python.framework/Versions/3.11/bin/python3.11 /Users/dustinkelle  r/.vscode/extensions/ms-python.debugpy-2024.0.0-darwin-arm64/bundled/libs/debugpy/adapter/../../debugpy/launcher 51874 -- /Users/dustinke  ller/Documents/DataMining/assignment1/DataFrameStatistics.py  (769, 9)  Pregnancies Glucose BloodPressure SkinThickness Insulin BMI \  0 6 148.0 72.0 35 0 33.6  1 1 85.0 66.0 29 0 26.6  2 8 183.0 64.0 0 0 23.3  3 1 89.0 66.0 23 94 28.1  4 1 89.0 66.0 23 94 28.1  DiabetesPedigreeFunction Age Outcome  0 0.627 50 1  1 0.351 31 0  2 0.672 32 1  3 0.167 21 0  4 0.167 21 0  Pregnancies Glucose BloodPressure SkinThickness Insulin BMI \  764 10 101.0 76.0 48 180 32.9  765 2 122.0 70.0 27 0 36.8  766 5 121.0 72.0 23 112 26.2  767 1 126.0 60.0 0 0 30.1  768 1 93.0 70.0 31 0 30.4  DiabetesPedigreeFunction Age Outcome  764 0.171 63 0  765 0.340 27 0  766 0.245 30 0  767 0.349 47 1  768 0.315 23 0  <class 'pandas.core.frame.DataFrame'>  RangeIndex: 769 entries, 0 to 768  Data columns (total 9 columns):  # Column Non-Null Count Dtype  --- ------ -------------- -----  0 Pregnancies 769 non-null int64  1 Glucose 768 non-null float64  2 BloodPressure 768 non-null float64  3 SkinThickness 769 non-null int64  4 Insulin 769 non-null int64  5 BMI 769 non-null float64  6 DiabetesPedigreeFunction 768 non-null float64  7 Age 769 non-null int64  8 Outcome 769 non-null int64  dtypes: float64(4), int64(5)  memory usage: 54.2 KB  None  Pregnancies int64  Glucose float64  BloodPressure float64  SkinThickness int64  Insulin int64  BMI float64  DiabetesPedigreeFunction float64  Age int64  Outcome int64  dtype: object  Null Values:  Pregnancies 0  Glucose 1  BloodPressure 1  SkinThickness 0  Insulin 0  BMI 0  DiabetesPedigreeFunction 1  Age 0  Outcome 0  dtype: int64  (766, 9)  (765, 9)  Column headings: ['Pregnancies', 'Glucose', 'BloodPressure', 'SkinThickness', 'Insulin', 'BMI', 'DiabetesPedigreeFunction', 'Age', 'Outcome']  ['Pregnancies', 'Glucose', 'BloodPressure', 'SkinThickness', 'Insulin', 'BMI', 'DiabetesPedigreeFunction', 'Age']  Pregnancies Glucose BloodPressure SkinThickness \  Pregnancies 1.000000 0.129124 0.137897 -0.079658  Glucose 0.129124 1.000000 0.151417 0.053806  BloodPressure 0.137897 0.151417 1.000000 0.211367  SkinThickness -0.079658 0.053806 0.211367 1.000000  Insulin -0.072742 0.323442 0.089765 0.434347  BMI 0.023713 0.225424 0.288207 0.392592  DiabetesPedigreeFunction -0.032954 0.141125 0.039788 0.187689  Age 0.543784 0.258555 0.239414 -0.117869  Insulin BMI DiabetesPedigreeFunction \  Pregnancies -0.072742 0.023713 -0.032954  Glucose 0.323442 0.225424 0.141125  BloodPressure 0.089765 0.288207 0.039788  SkinThickness 0.434347 0.392592 0.187689  Insulin 1.000000 0.201847 0.192636  BMI 0.201847 1.000000 0.141467  DiabetesPedigreeFunction 0.192636 0.141467 1.000000  Age -0.052478 0.040244 0.037655  Age  Pregnancies 0.543784  Glucose 0.258555  BloodPressure 0.239414  SkinThickness -0.117869  Insulin -0.052478  BMI 0.040244  DiabetesPedigreeFunction 0.037655  Age 1.000000  ----------sorted correlations----------  BMI 1.000000  SkinThickness 0.392592  Outcome 0.294476  BloodPressure 0.288207  Glucose 0.225424  Insulin 0.201847  DiabetesPedigreeFunction 0.141467  Age 0.040244  Pregnancies 0.023713  Name: BMI, dtype: float64  Pregnancies Glucose BloodPressure SkinThickness Insulin \  count 765.000000 765.000000 765.000000 765.000000 765.000000  mean 3.839216 120.786928 69.138562 20.483660 79.150327  std 3.357656 31.898117 19.336417 15.946288 114.240410  min 0.000000 0.000000 0.000000 0.000000 0.000000  25% 1.000000 99.000000 62.000000 0.000000 0.000000  50% 3.000000 117.000000 72.000000 23.000000 25.000000  75% 6.000000 140.000000 80.000000 32.000000 127.000000  max 17.000000 199.000000 122.000000 99.000000 846.000000  BMI DiabetesPedigreeFunction Age Outcome  count 765.000000 765.000000 765.000000 765.000000  mean 31.992549 0.472961 33.184314 0.349020  std 7.880881 0.331516 11.730002 0.476972  min 0.000000 0.078000 21.000000 0.000000  25% 27.300000 0.244000 24.000000 0.000000  50% 32.000000 0.375000 29.000000 0.000000  75% 36.600000 0.627000 41.000000 1.000000  max 67.100000 2.420000 81.000000 1.000000  Pregnancies 17  Glucose 136  BloodPressure 47  SkinThickness 51  Insulin 185  BMI 248  DiabetesPedigreeFunction 517  Age 52  Outcome 2  dtype: int64  [ 6 1 8 0 5 3 10 4 7 9 11 2 13 15 17 12 14]  BMI Glucose Outcome  0 33.6 148.0 1  1 26.6 85.0 0  2 23.3 183.0 1  3 28.1 89.0 0  4 28.1 89.0 0  (728, 3)  BMI Glucose Outcome  0 33.6 148.0 1  1 26.6 85.0 0  3 28.1 89.0 0  4 28.1 89.0 0  5 43.1 137.0 1  143.0  BMI Glucose Outcome  10 0.0 125.0 1  11 37.6 110.0 0  12 38.0 168.0 1  13 27.1 139.0 0  index BMI Glucose Outcome  0 10 0.0 125.0 1  1 11 37.6 110.0 0  2 12 38.0 168.0 1  3 13 27.1 139.0 0  BMI Glucose Outcome  0 0.0 125.0 1  1 37.6 110.0 0  2 38.0 168.0 1  3 27.1 139.0 0 |