Quiz 2

import numpy as np import matplotlib.pyplot as plt

Array

data1 = [85, 62, 78, 64, 25, 12, 74, 96, 63, 45, 78, 20, 5, 30, 45, 78, 45, 96, 65, 45, 12, 74, 78, 23, 8]

Statistical Summary

print("Quiz 2 - Statistical Summary Overview:")

max = np.max(data1) print("Max:{0:d}".format(max))

min = np.min(data1) print("Min:{0:d}".format(min))

mean = np.mean(data1) print("Mean:{0:8.4f}".format(mean))

variance = np.var(data1) print("Variance: {0:8.4f}".format(variance))

standarddev = np.std(data1) print("STD: {0:8.4f}".format(standarddev))

median = np.median(data1) print("Median: {0:8.4f}".format(median))

Data visualizations

hist1, edges1 = np.histogram(data1) plt.bar(edges1[:-1], hist1, width = edges1[1:] - edges1[:-1], edgecolor = 'k') plt.title("Data Array") plt.show()

References:

"" - Grok 2 ""