

Statistics with Python Cheat Sheet by Justin1209 (Justin1209) via cheatography.com/101982/cs/21244/

Mean / Median

Mean = Averagenp.average(array)Mediannp.median(array)Modestats.mode(array)

Mean = Average

Median = Center of a dataset

Mode = Most common value in a dataset

-> (from scipy import stats)

Range

min	np. amin (data)
max	np. amax (data)
range	max - min

Variance

Variance

-> Tells us how spread out the Data is

Variance in numpy

variance = np.var(dataset)

Build Variance from ground up example

grades = [88, 82, 85, 84, 90]
mean = np.mean(grades)
When calculating these
variables, square the difference.
difference_one = (88 - mean) **
2
difference_two = (82 - mean) **
2
difference_three = (85 - mean)
** 2
difference_three = (85 - mean) **

2
difference_five = (90 - mean) **

difference sum = difference one

+ ... + difference_five

variance = difference_sum / 5

Standard Deviation

Standard Deviation in numpy
dataset = [4, 8, 15, 16, 23, 42]
standard_deviation = np. std(dataset)

Histogram

Specify the Bin-Range

bin_range = (max_value - min_value + 1) / bins

Histogram

times_hist = np.histogram(data,
range = (0, 24), bins = 4)



Not published yet. Last updated 27th November, 2019. Page 1 of 1. Sponsored by **CrosswordCheats.com** Learn to solve cryptic crosswords! http://crosswordcheats.com