Day 4 -STATS

1 IQR-Python

2 Probability

3 Permutation and combination

4 Confidence Intervals

5 P value

6 Hypothesis testing

Dataset= [11,10,12,14,12,15,14,13,15,102,12,14,17,19,107,10,13,12,14,12,108,12,11,14,13,15,10,15,12,10,14,13,15,10]

import numpy as np

import matplotlib.pyplot as plt

%matplotlib inline

## Define our dataset

dataset = [11,10,12,14,12,15,14,13,15,102,12,14,17,19,107,10,13,12,14,12,108,12,11,14,13,15,10,15,12,10,14,13,15,10]

plt.hist(dataset)

outliers=[]

def detect\_outliers(data):

threshold=3 ## 3 std deviation

mean=np.mean(data)

std=np.std(data)

for i in data:

z\_score=(i-mean)/std

if np.abs(z\_score)> threshold:

outliers.append(i)

return outliers

detect\_outliers(dataset)

Lab

<https://colab.research.google.com/drive/1ipruAQQN710_AsdhmS55amoPgMoEao8c>

