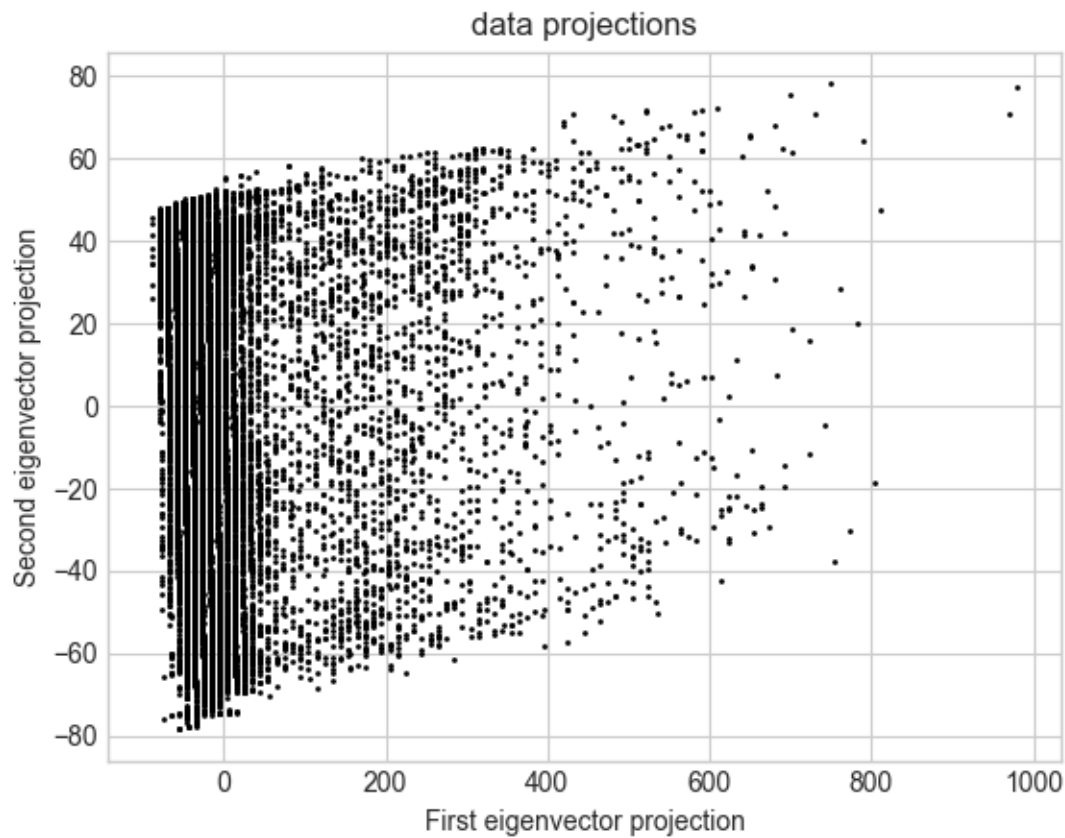


Jae Park
Data Mining
HW2

\$ python3 Assign2-part1.py energydata_complete.csv 0.975

6 dimensions required to capture $\alpha=0.975$

MSE along 3rd eigenvector: 603.4087192828594



\$ python3 Assign2-part2.py energydata_complete.csv > part2.out

d = 10

min: 8.537736462515939e-07

max: 179.99999914622634

range: 0.000001 - 179.999999

mean: 89.92643242376826

variance: 380.2098573590691

d = 100

min: 65.16541251029841

max: 116.10388113733993

range: 65.165413 - 116.103881
mean: 90.01013691664623
variance: 33.52851745364576

d = 1000
min: 82.53040768358306
max: 98.04784624731151
range: 82.530408 - 98.047846
mean: 90.01281611377772
variance: 3.2755354760172364

