Question 6:

6.1

A screenshot of a computer screen

Description automatically generated

6.2

A screen shot of a computer screen

Description automatically generated

6.3

A screenshot of a computer screen

Description automatically generated

6.4

A screenshot of a computer screen

Description automatically generated

6.5

A screen shot of a computer screen

Description automatically generated

Question 7:

A screen shot of a computer program

Description automatically generated

7.1

Mean:

[3.17942405 5.75373796]

7.2

Covariance:

[[9.23478745 5.32353749]

[5.32353749 7.34023779]]

7.3

Eigenvalues:

[13.69467278 2.88035245]

Eigenvectors:

[[ 0.76654712 -0.64218807]

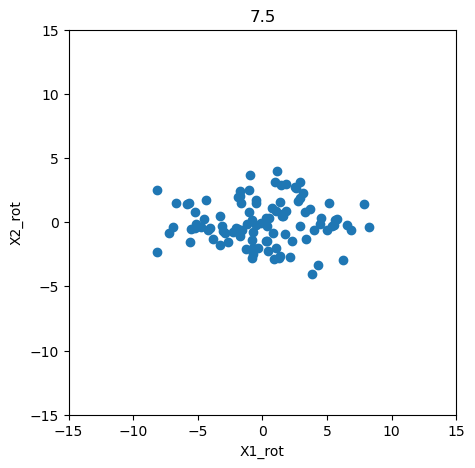
[ 0.64218807 0.76654712]]

7.4

A graph with numbers and dots

Description automatically generated

7.5



Question 8:

8.1

A computer screen with text and numbers

Description automatically generated

8.2

A screen shot of a computer screen

Description automatically generated

8.3a

A screen shot of a computer program

Description automatically generated

A screenshot of a computer

Description automatically generated

8.3b

A screen shot of a computer program

Description automatically generated

A screenshot of a computer

Description automatically generated

8.3c

LDA seemed to perform marginally between than QDA. Most likely because of the simplistic nature of numbers may be better suited towards numbers.

8.3d

QDA

A screenshot of a computer screen

Description automatically generated

LDA:

A screen shot of a computer program

Description automatically generated

8.4

Kaggle Username: Christopher Avakian

Kaggle Score: 0.845

A screen shot of a computer program

Description automatically generated

8.5

Kaggle Username: Christopher Avakian

Kaggle Score: 0.375 (Yeah I don’t know how I did that)

A screen shot of a computer program

Description automatically generated