**• Summary of the report**

The authors use f-GAN to do robust mean and covariance matrix estimation on financial dataset. They conduct outlier detection on JS-GAN and explore the impact of hidden layers. They also visualize the first two principle components by Robust PCA.

**• Describe the strengths of the report**

1) The authors use the robust estimator by JS-GAN under student-t assumption into the detection of outliers.

2) They explain reasons about the outliers in the stock market dataset because the coronavirus diseases make global financial market turbulent.

**• Describe the weaknesses of the report**

1) The authors have no explanation for the visualization of Robust PCA if they want to classify ten industries in the graph.

2) They should show the results of TV-GAN and compare the performance of TV-GAN with JS-GAN.

**• Evaluation on quality of writing: 5**

Clearly written with mathematical equations.

**• Evaluation on presentation: 4**

**• Evaluation on creativity: 4**

**• Confidence on your assessment: 3**