**Peer Review 480388575**

1. Technical Content

To predict renal rejection, the author implemented Lasso regression in R on microarray data. This method reduces the number of features using a tuning parameter (λ) in order to minimise the Average Mean Squared Error and maximise the accuracy of the prediction model. Therefore, the speaker had to find λ to determine the number of genes needed for the best model and then create the classifier based the Lasso regression concept (check image below).

2. Presentation

1. Information flow

Very smooth and continuous presentation with visually pleasing slides and demonstration of the Shiny App. There was no unnecessary stops or silence and the structure of the presentation was well-built. The information was straightforward and clear.

1. Content

Really liked the illustration of Lasso regression. Make it easier what the tuning parameter exactly is in the model and help the audience to understand the idea of how to approach the classifier.

A screenshot of a cell phone

Description automatically generatedHowever, it wasn’t obvious of how to upload the gene expression file to the Shiny App. What URL do we need to place into the app? What the format of the csv file? Unfortunately, we never really learnt this.

1. Strength

Definitely the appealing slides and the well-organised Shiny app. The information on the slides were concise and the images were informative. The Shiny App produces pretty plots and labels are correctly added. It also looks like the app is more advanced than what is expected showing a decent effort from the author.

1. Weakness

It seemed like the speaker recorded the presentation in a normal speaking pace but then speeded up the video so that it fit the 3 minutes. The presentation was too fast and so not always understandable. One suggestion could be to speak less about the Lasso regression itself as the audience (DATA3888 students) are familiar with the concept.

Also that we don’t know the technical side of the Shiny App. We saw separate pages that run perfectly, but it isn’t clear whether this is one app or 3-4 separate apps. Some information on how to run the app or download the app would be helpful.