**NEURAL NETWORKS ICP-8**

NAME : SANJANA MORTHA

UCM ID: 700747286

GITHUBLINK:

<https://github.com/sanjanamortha28/Neural-ICP_8>

Video Link:

<https://github.com/sanjanamortha28/Neural-ICP_8/assets/70304377/def478cf-c469-41d8-9dcf-13321379edb8>

1. Tune hyper-parameter and make necessary addition to the baseline model to improve validation accuracy and reduce validation loss.
2. Provide logical description of which steps lead to improved response and what was its impact on architecture behavior.

Program

A screenshot of a computer program

Description automatically generated

1. Create at least two more visualizations using matplotlib (Other than provided in the source file)

A screenshot of a computer screen

Description automatically generated

A chart with different colored squares

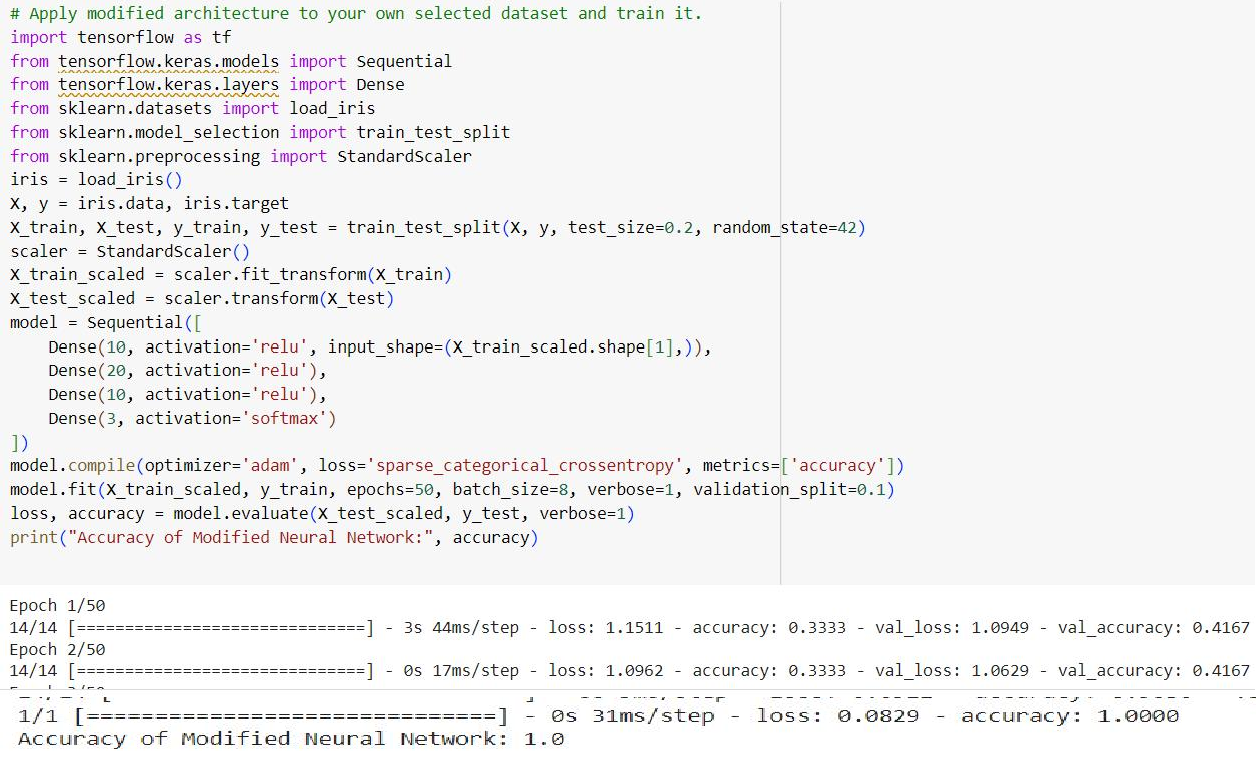
Description automatically generated with medium confidence

1. Use dataset of your own choice and implement baseline models provided.

A screenshot of a computer program

Description automatically generated

1. Apply modified architecture to your own selected dataset and train it.

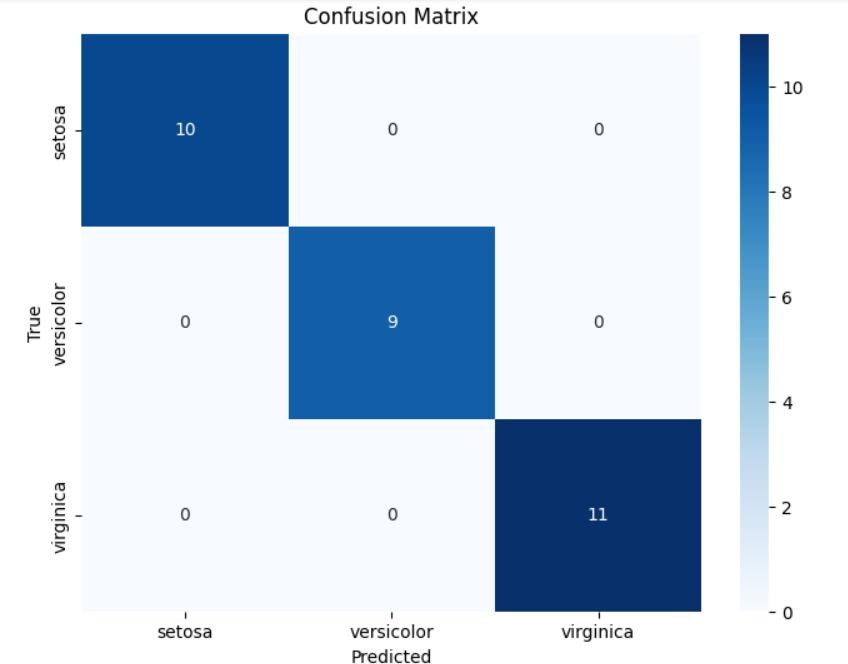
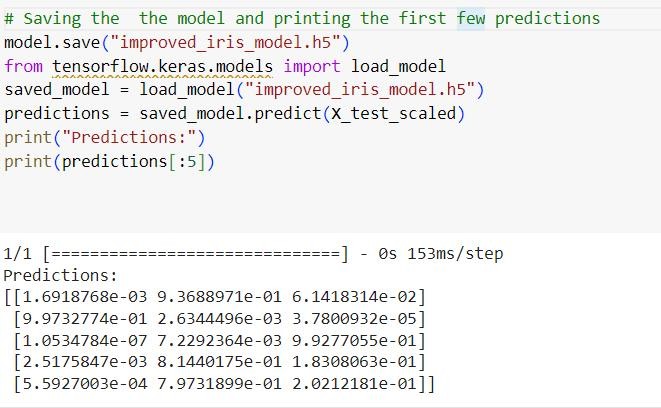


1. Evaluate your model on testing set.

A screenshot of a computer program

Description automatically generated

1. Save the improved model and use it for prediction on testing data 8. Provide plot of confusion matric



1. Provide Training and testing Loss and accuracy plots in one plot using subplot command and history object.

A screen shot of a computer

Description automatically generated

1. Provide at least two more visualizations reflecting your solution.
2. Provide logical description of which steps lead to improved response for new dataset when compared with baseline model and enhance architecture and what was its impact on architecture behavior.

