All the model is finetune and train on the same dataset with same numbers of epochs

# Model 1 (Provided Model)

A screen shot of a computer program

Description automatically generated

A screenshot of a computer program

Description automatically generated

A graph with a line

Description automatically generated

test\_loss: 0.8686615228652954, test\_accuracy: 0.7193999886512756

# Model 2 (Modified base on Model 1)

A screen shot of a computer program

Description automatically generated

A screenshot of a computer

Description automatically generated

A graph with blue and orange lines

Description automatically generated

test\_loss: 0.47836971282958984, test\_accuracy: 0.8489000201225281

# Model 3 (Transfer Learning from VGG16 Model)

A screen shot of a computer program

Description automatically generated

A screenshot of a computer program

Description automatically generatedA graph with orange line and blue line

Description automatically generated

test\_loss: 0.9223770499229431, test\_accuracy: 0.6909000277519226

# Prediction Results

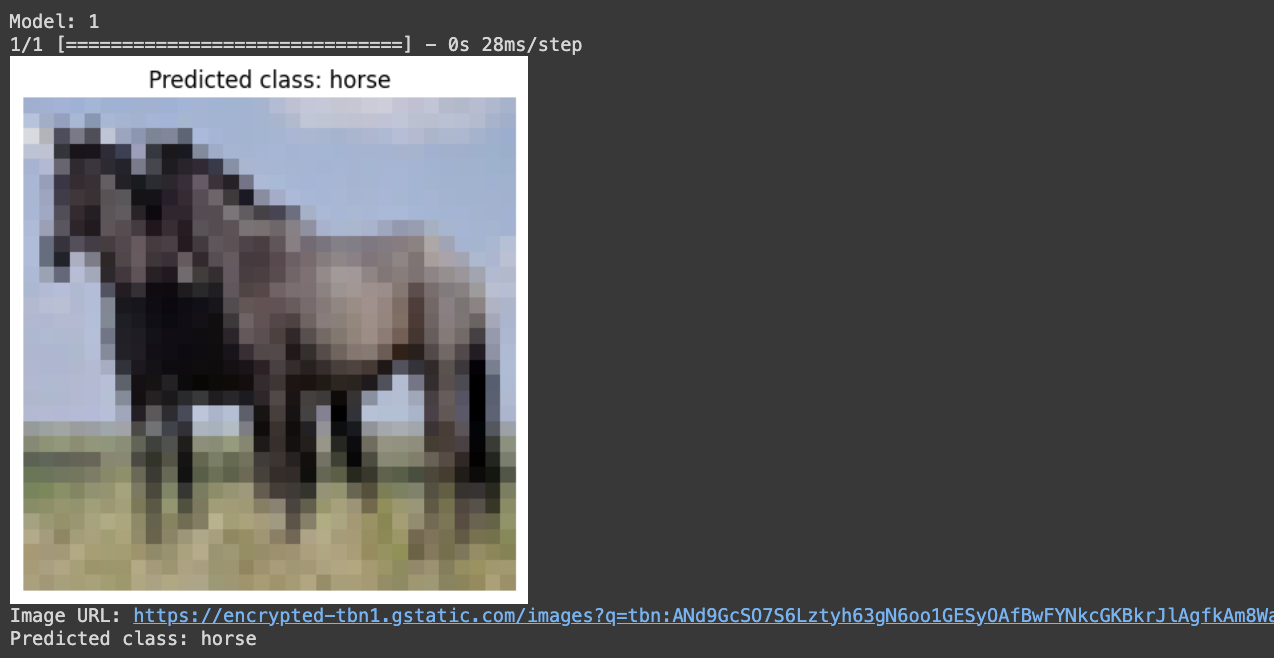
Model 1:

A screenshot of a computer

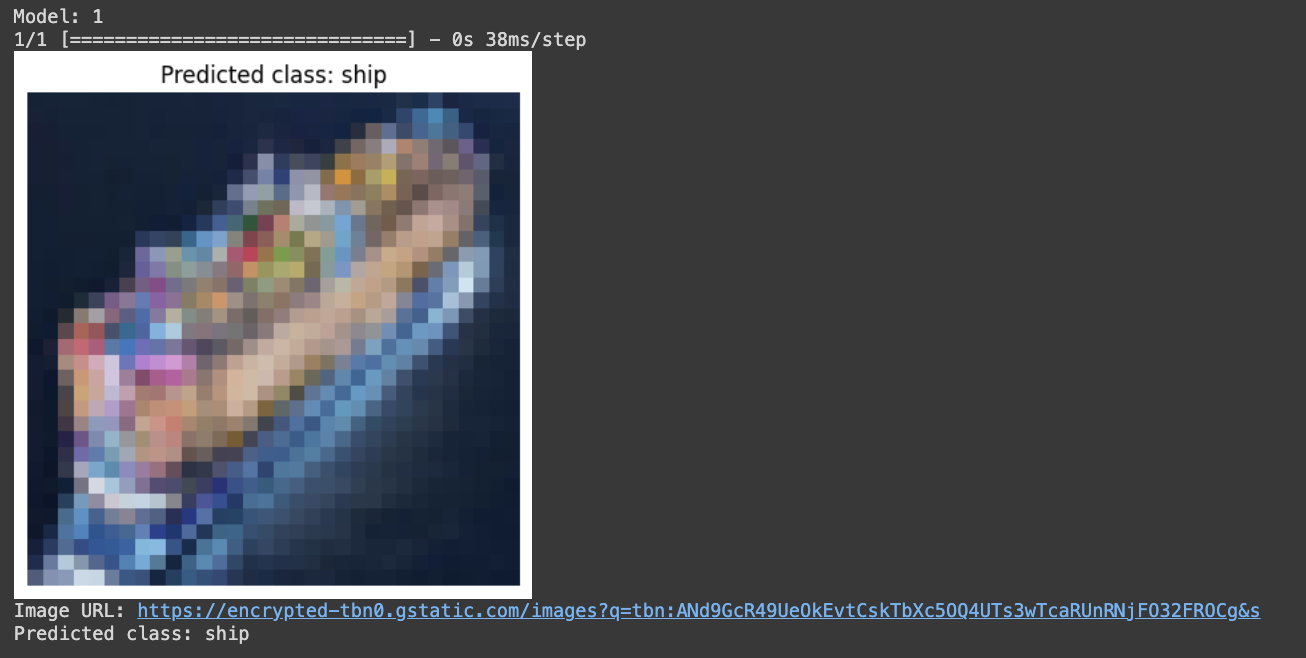
Description automatically generated

A screenshot of a computer

Description automatically generated



A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

Model 2

A screenshot of a computer

Description automatically generatedA screenshot of a computer

Description automatically generatedA screenshot of a horse

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Model 3A screenshot of a computer

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A screenshot of a computer

Description automatically generated

A screen shot of a computer

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A screenshot of a computer

Description automatically generated

All 3 models performs pretty well and reflecting its accuracy during training. This also has shown the the Model 2 has outperforms Model 1 and Model 2 base on both evaluation and predicting stage on untrain image.