

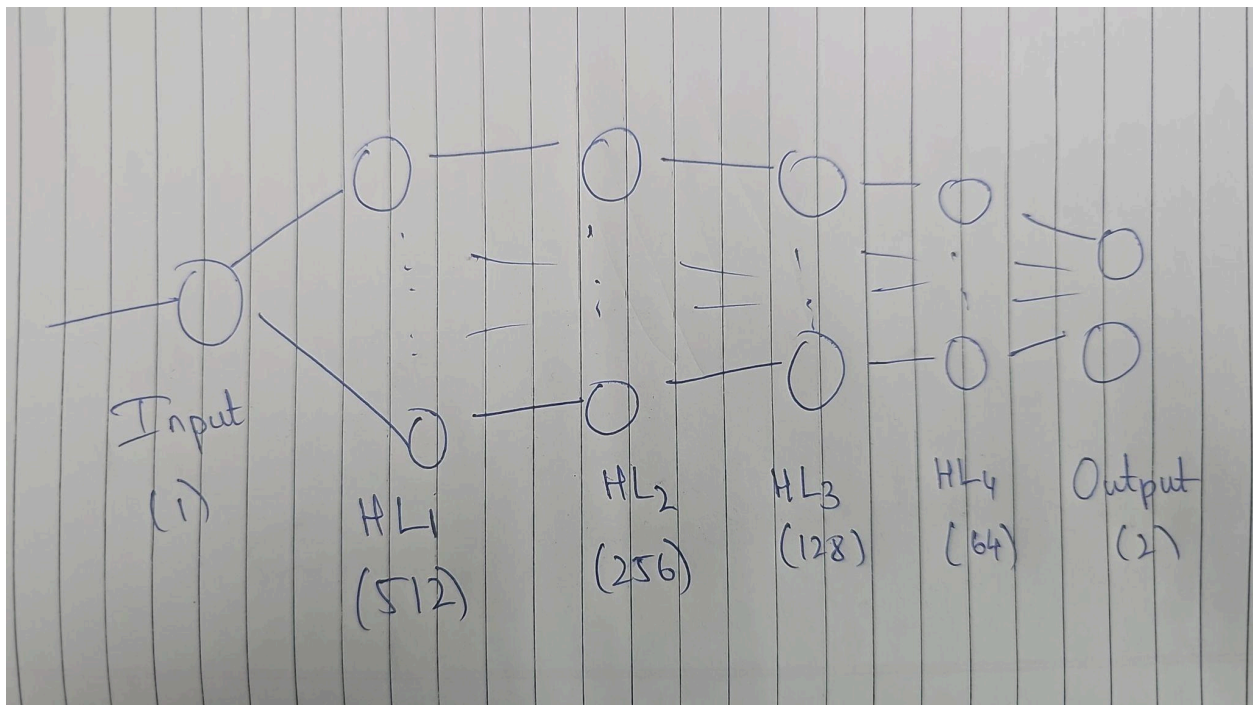
CS 203 Software Tools and Techniques for AI

Group: 12

Name: Harinarayan J (23110128) , Vyomika Vasireddy (23110363)

Github Repository: <https://github.com/HarinarayanJ/CS203-Lab7>

MLP Architecture

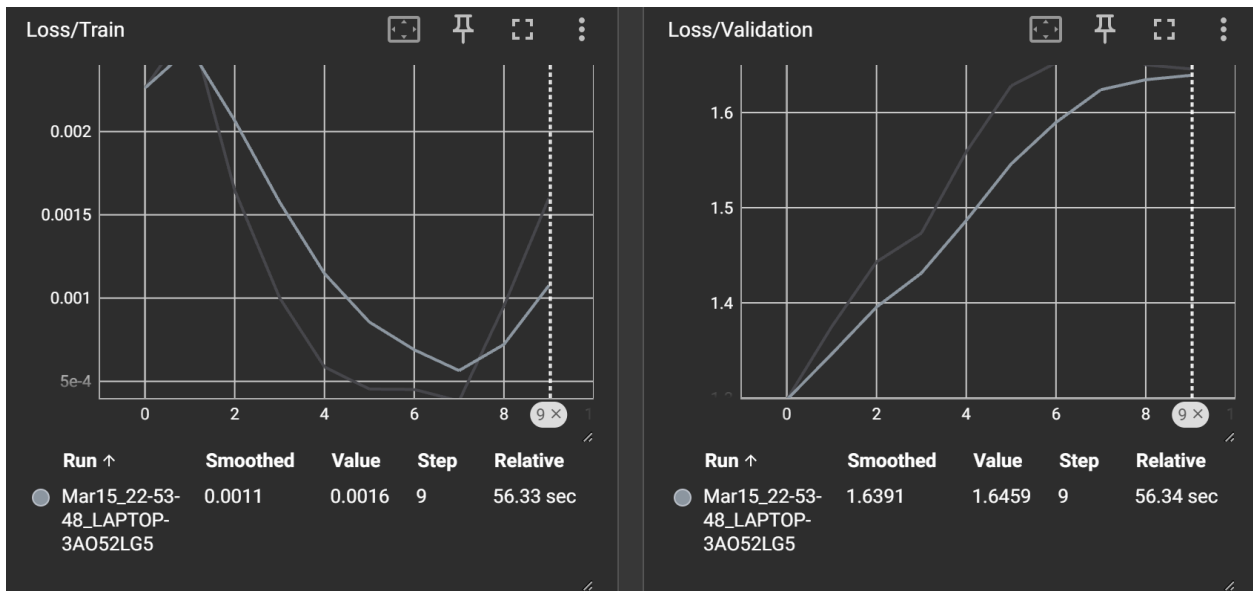
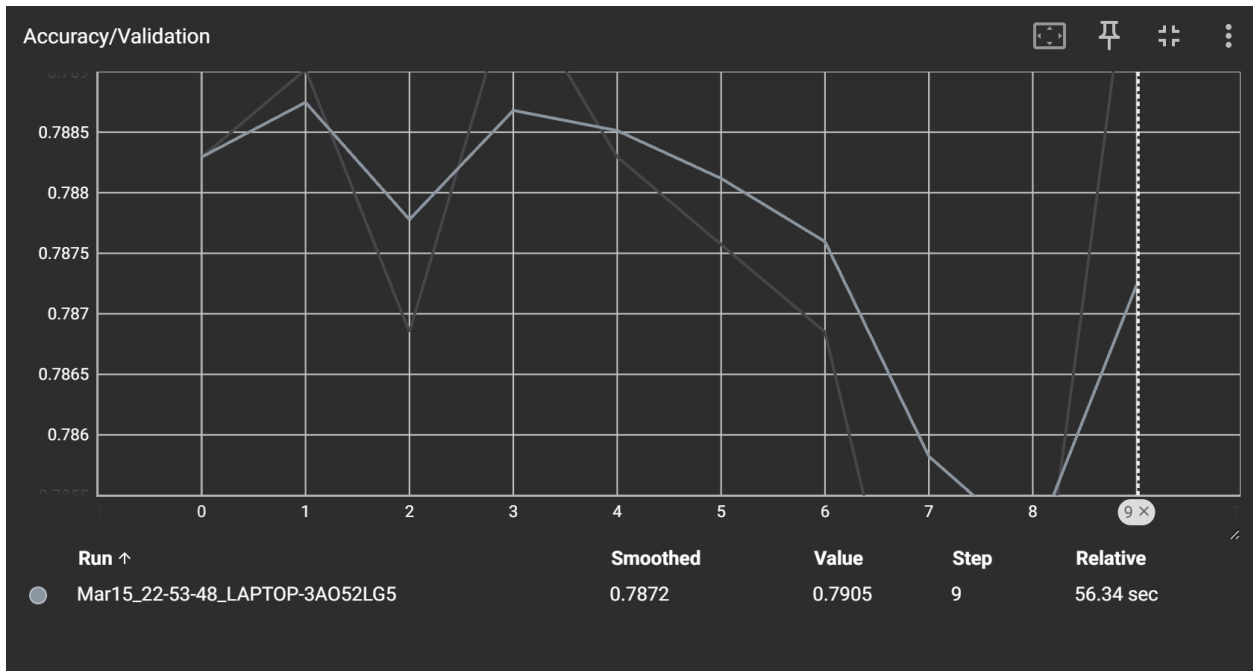


Hyperparameters

Epochs: 10, Learning Rate = 0.001

Logged Metrics

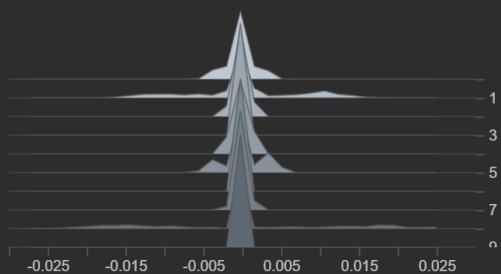
Model - 1



l1.bias/grad



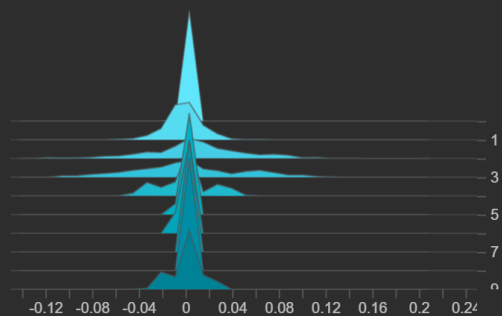
● Mar15_22-53-48_L...



l1.bias/grad



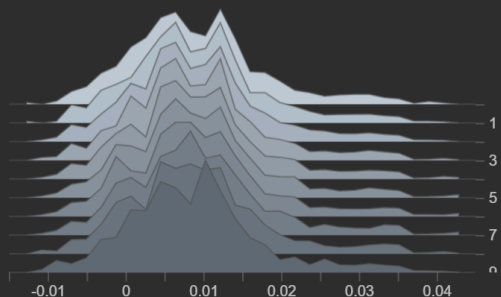
● Mar15_22-55-54_L...



l1.bias/weights



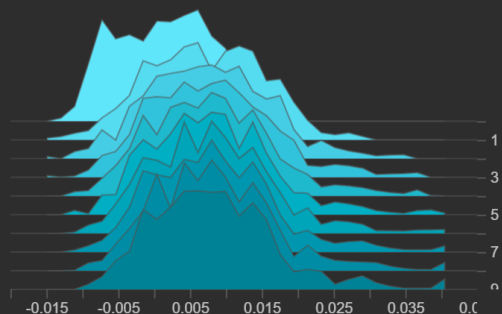
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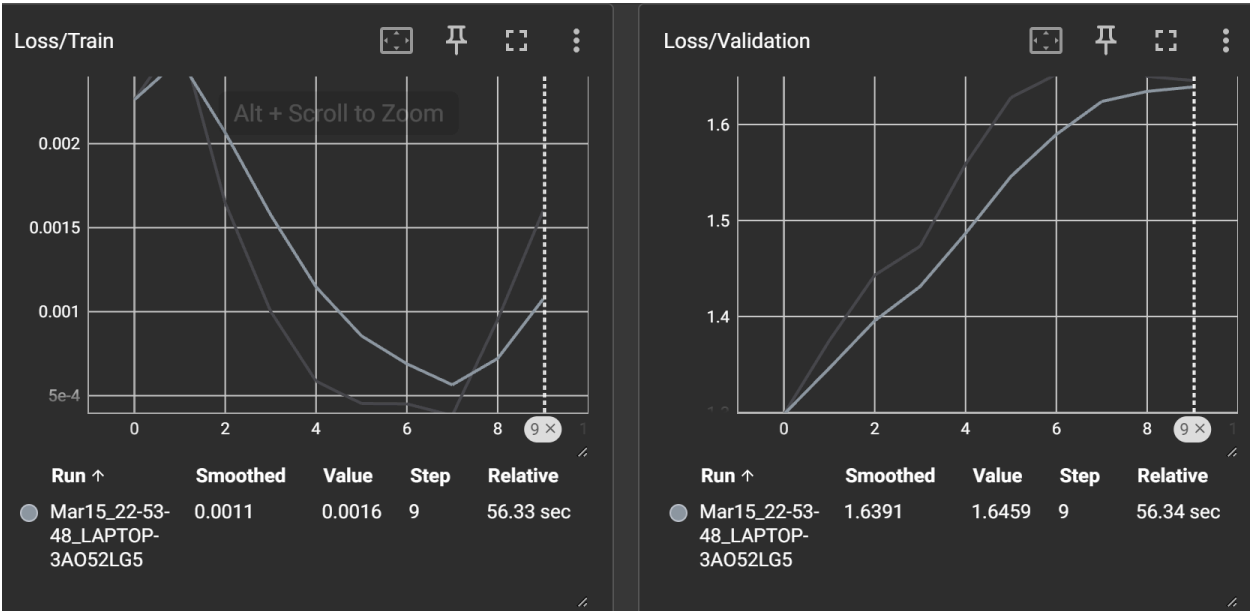
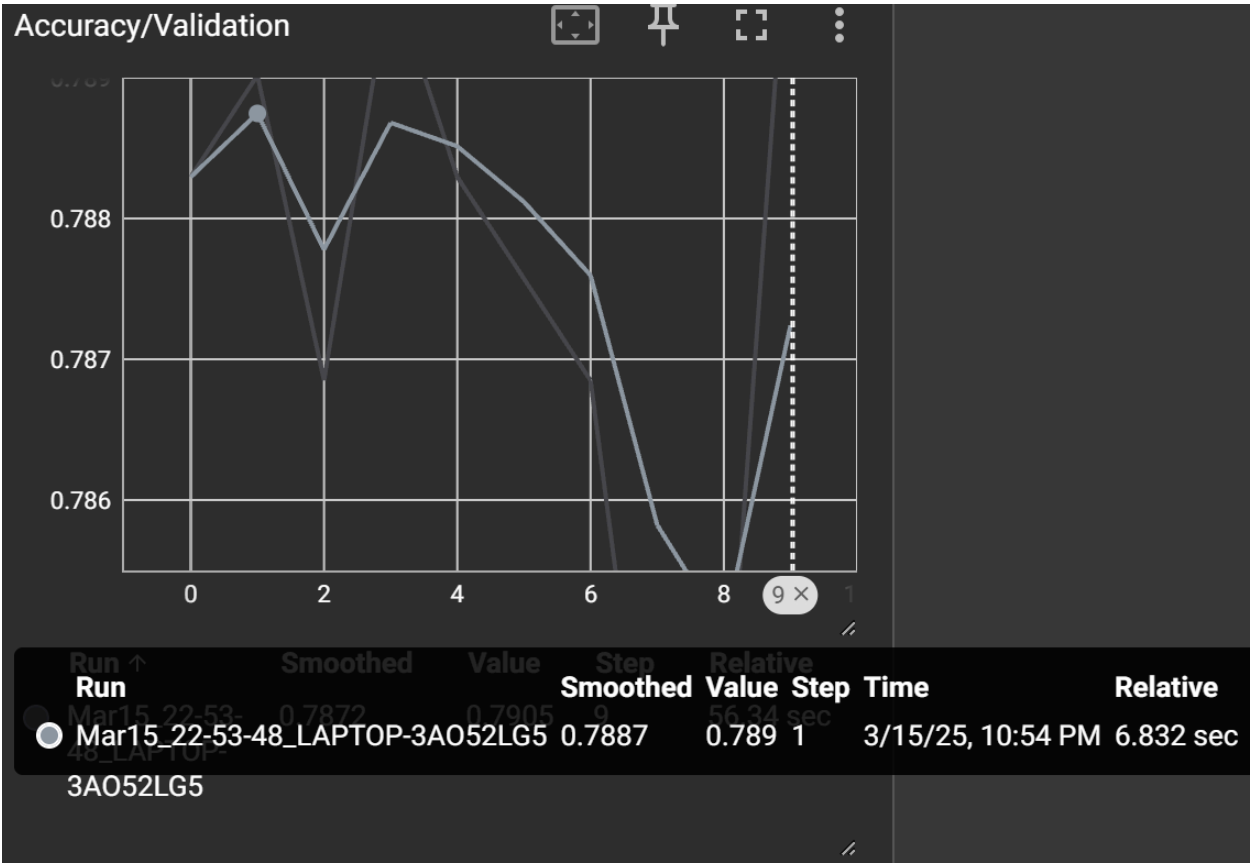
l1.bias/weights



● Mar15_22-55-54_L...



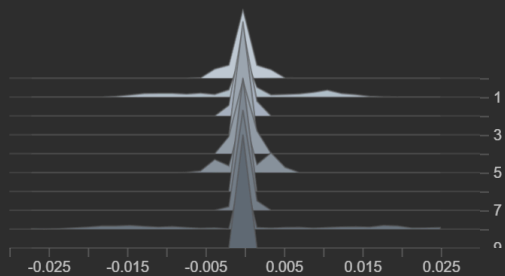
Model 2



l1.bias/grad



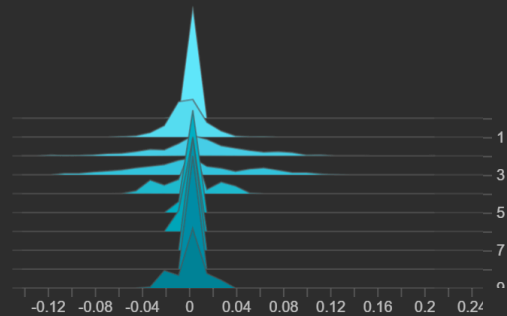
● Mar15_22-53-48_L...



l1.bias/grad



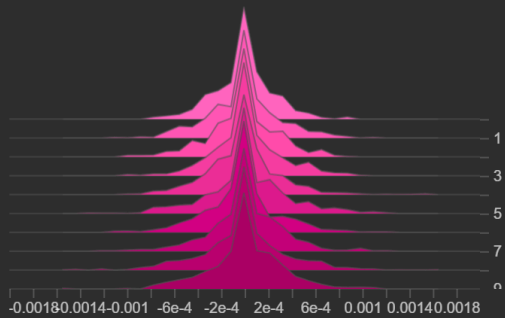
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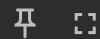
l1.bias/grad



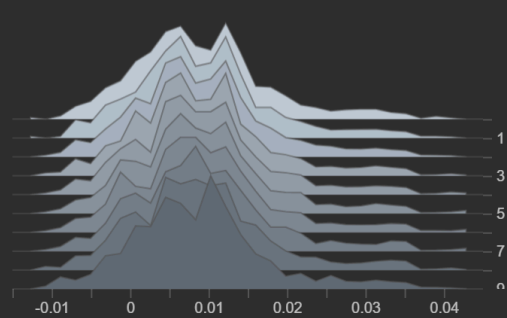
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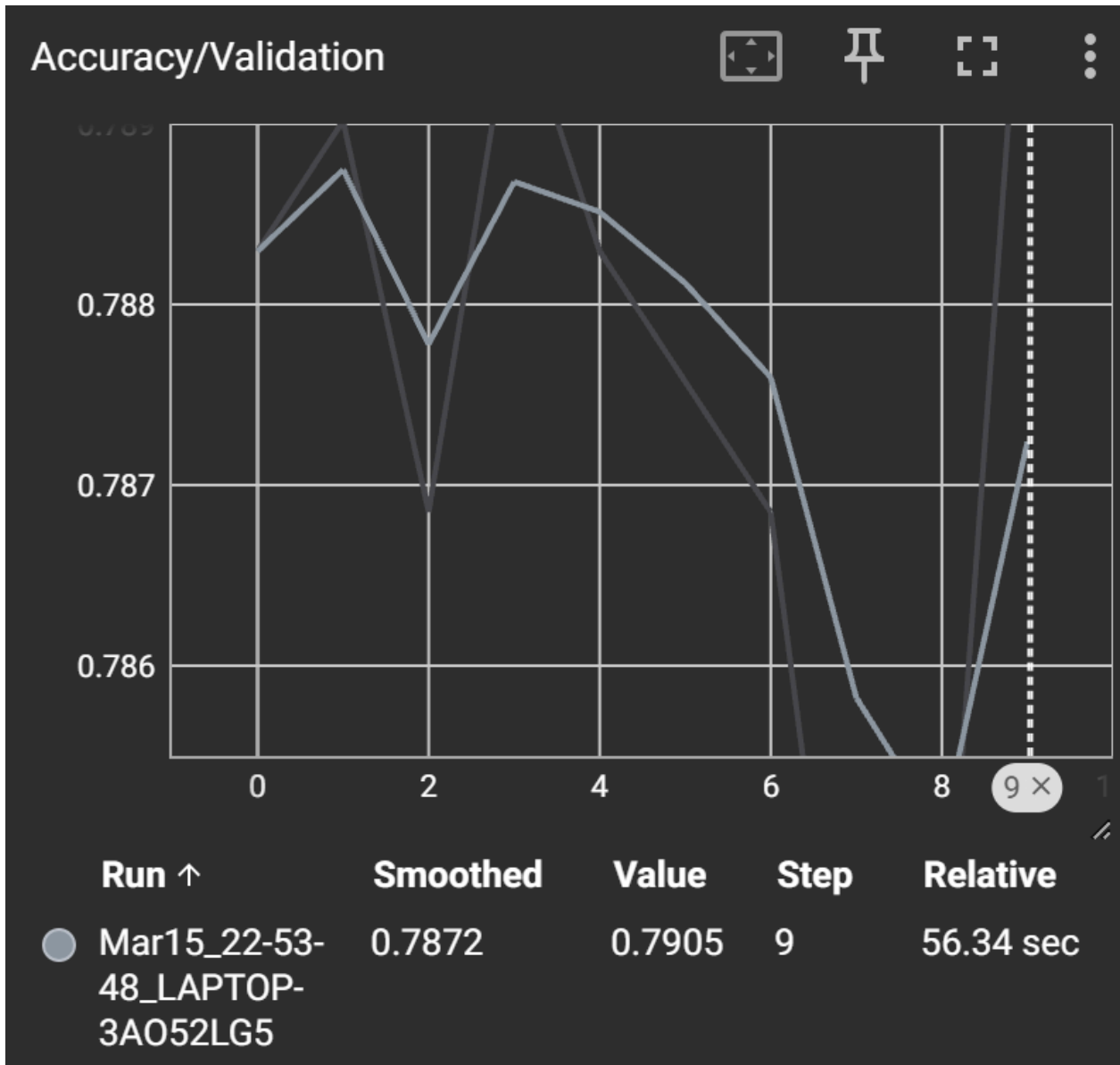
l1.bias/weights

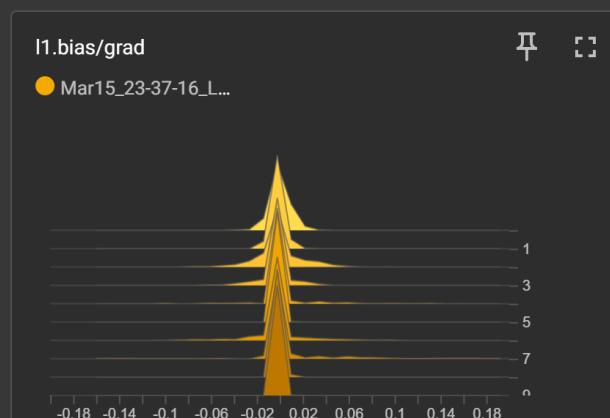
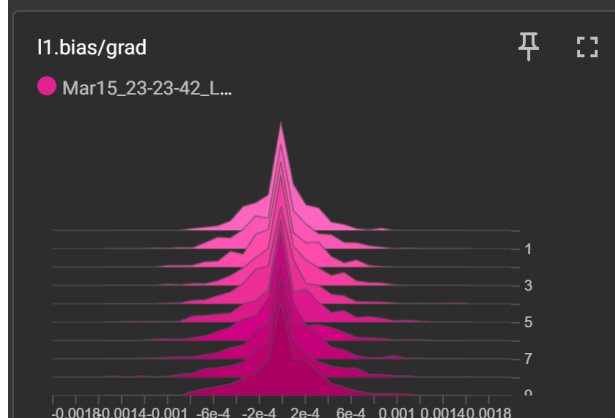
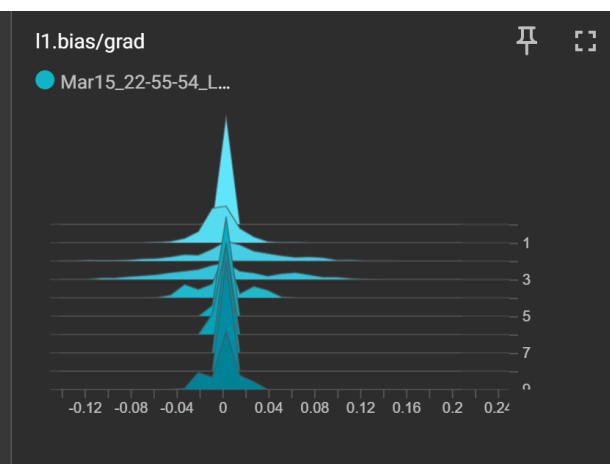
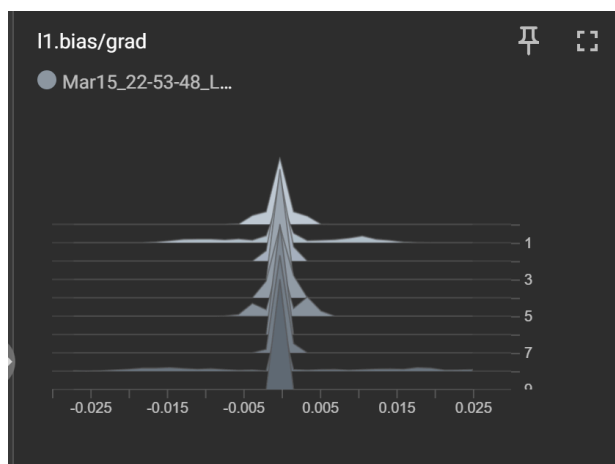
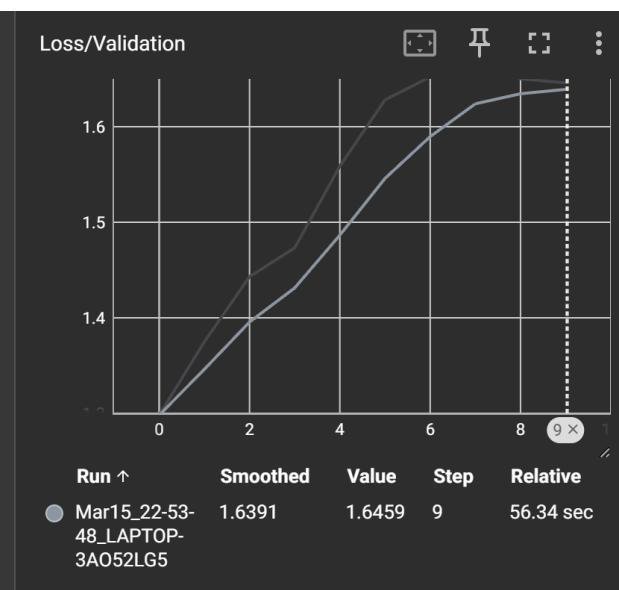
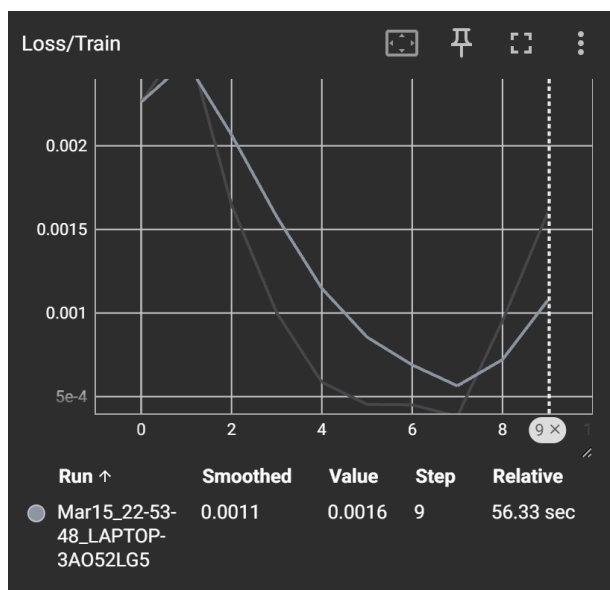


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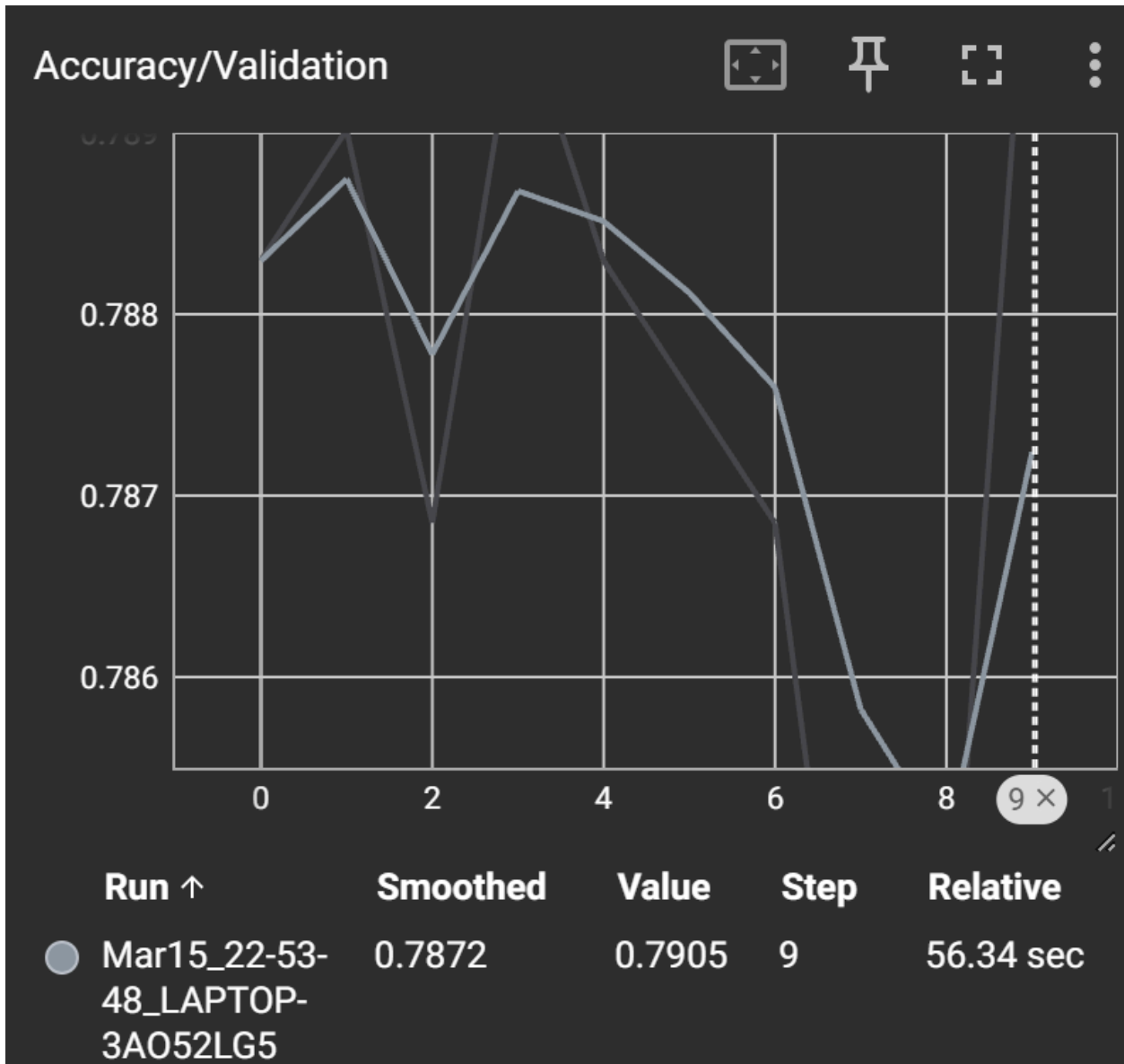


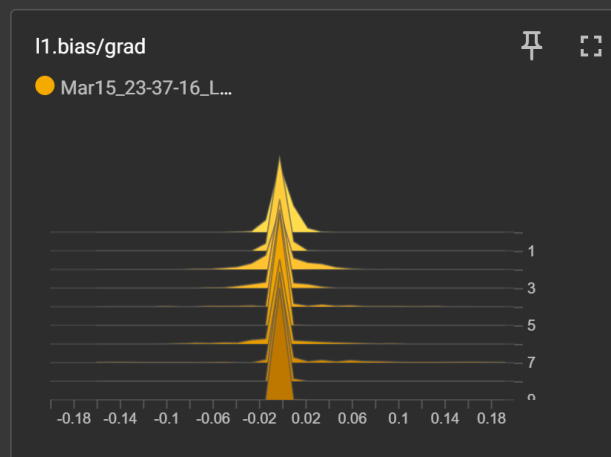
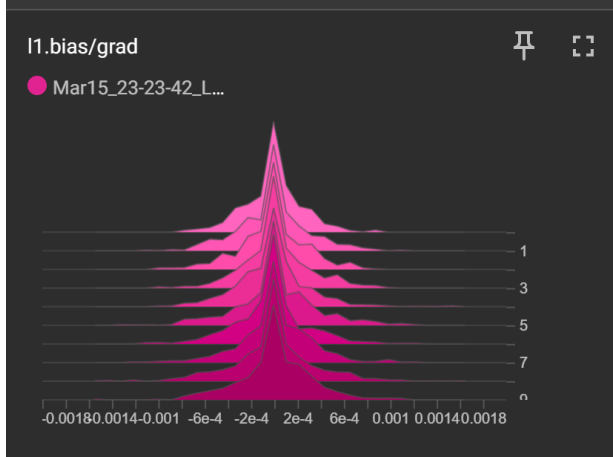
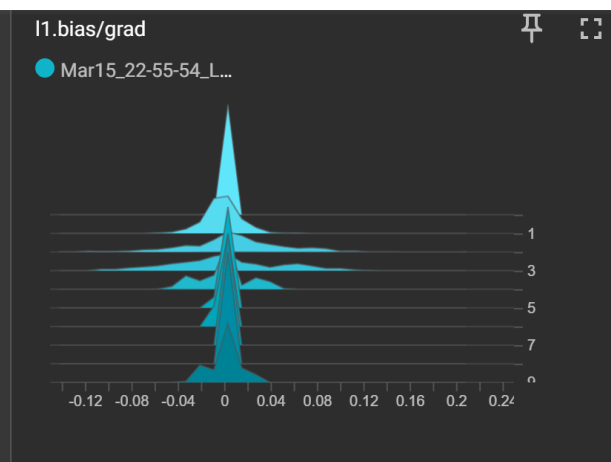
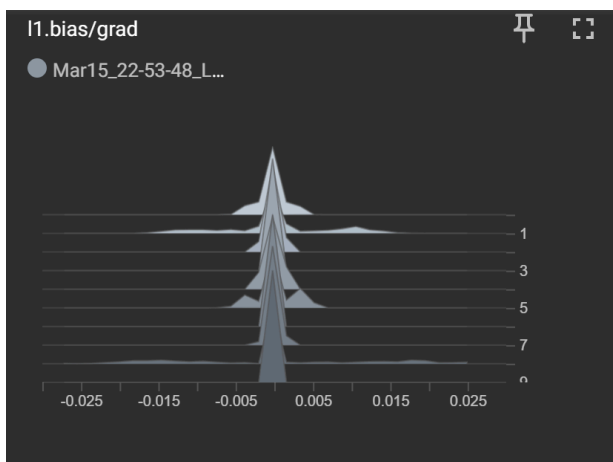
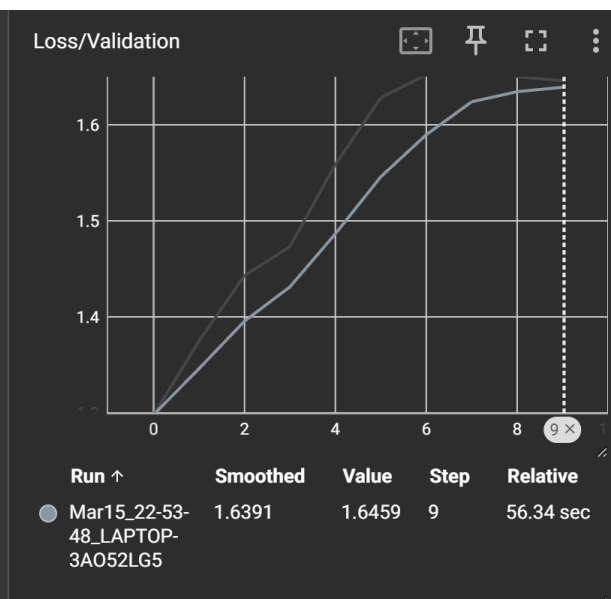
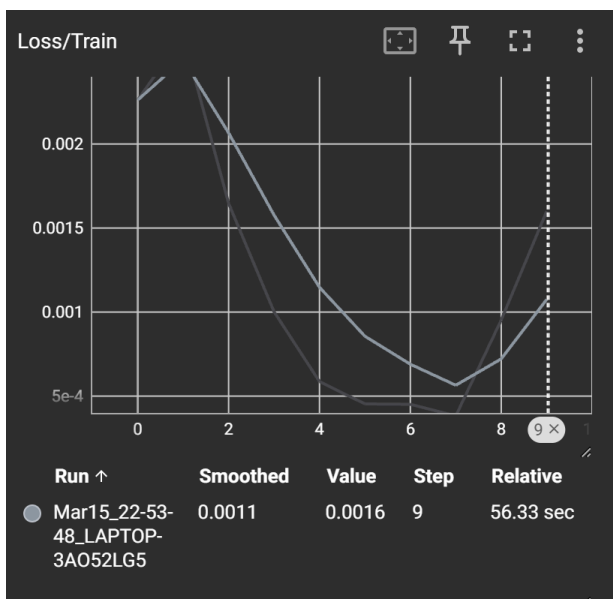
Model 1 IMDB:





Model 2 IMDB





Final Evaluation Results

Model 1

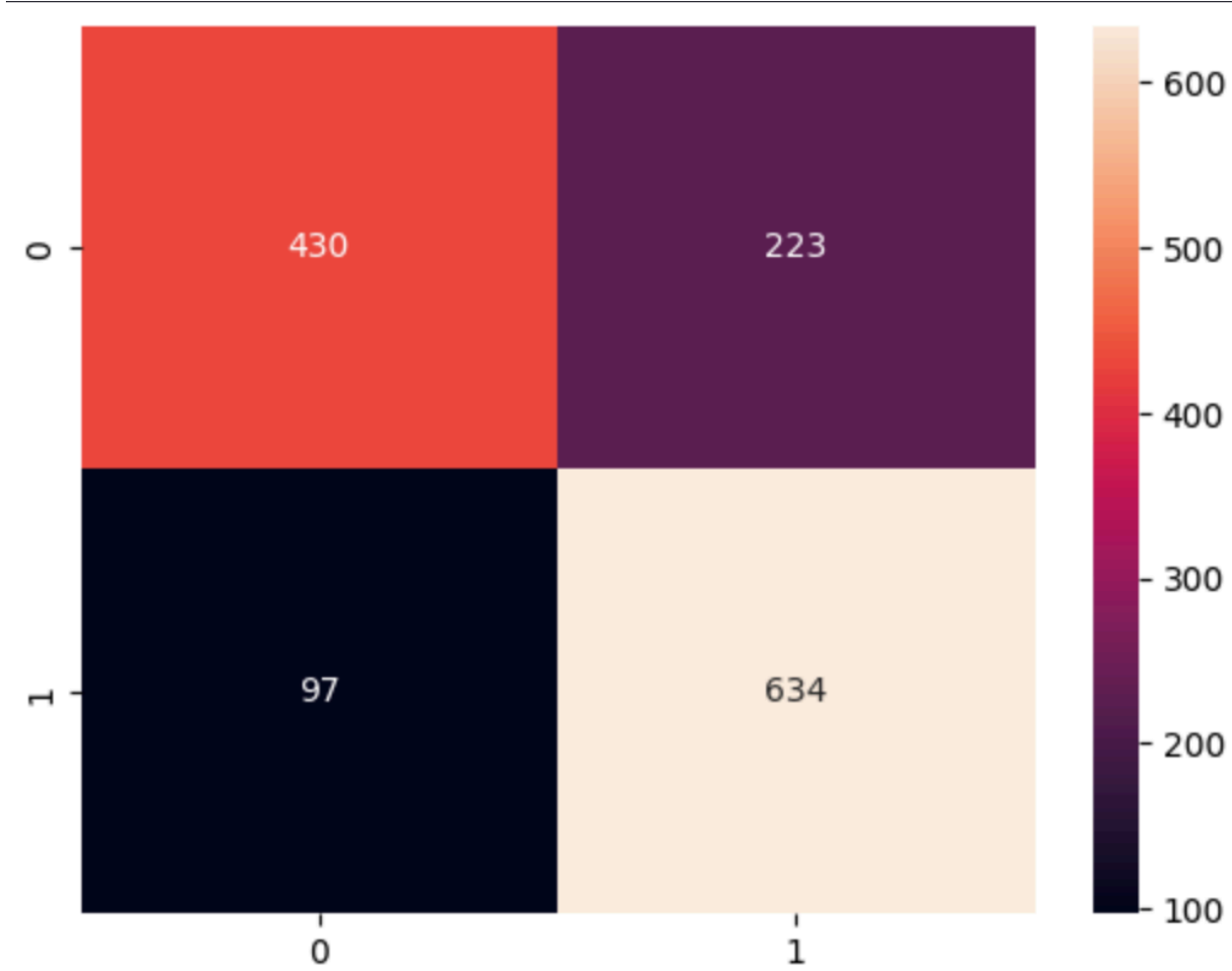
Accuracy Score: 0.7687861271676301
F1 Score: 0.7984886649874056
Precision Score: 0.7397899649941657
Recall Score: 0.8673050615595075

IMDB Model 1

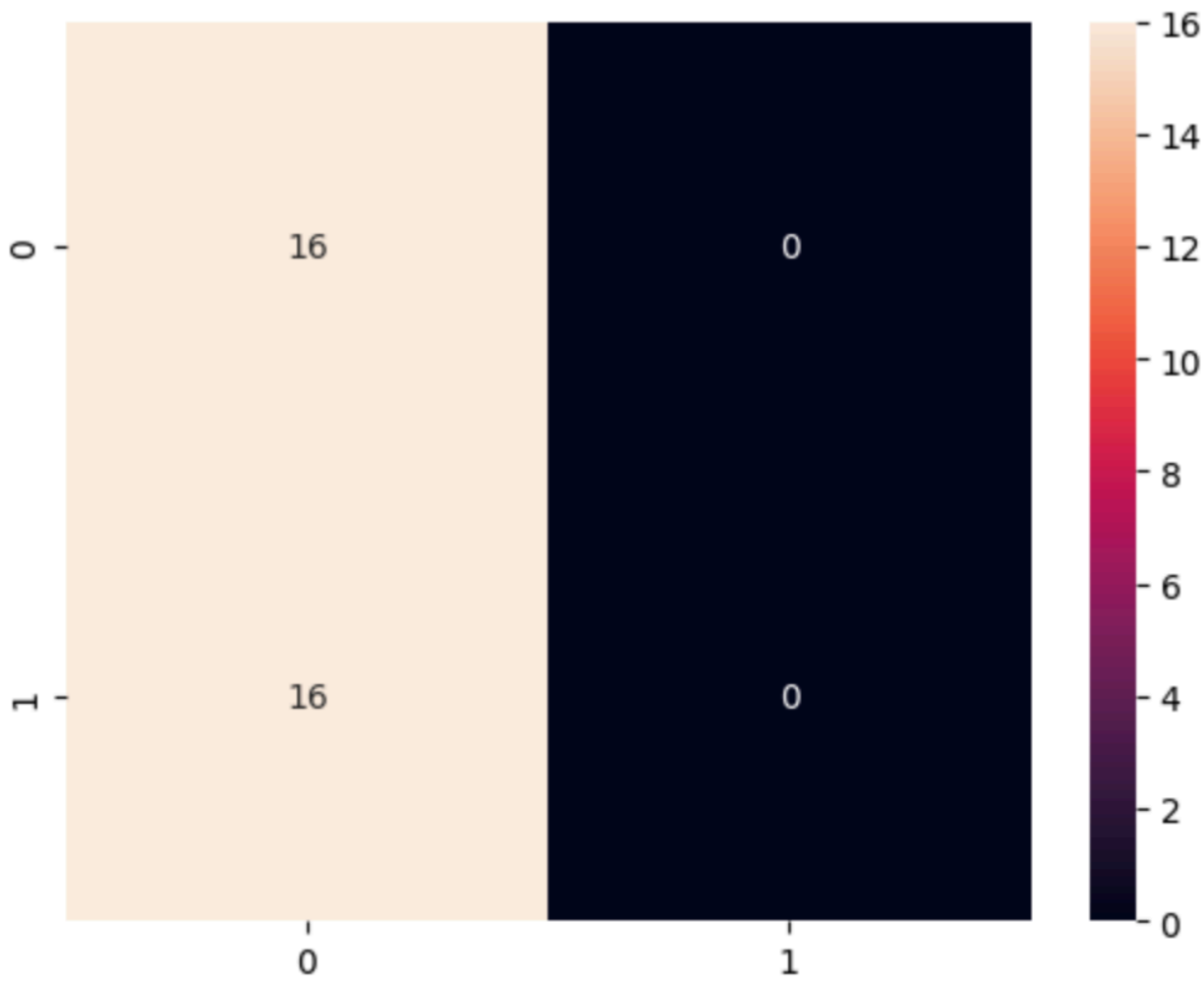
Accuracy Score: 0.8828
F1 Score: 0.8804081632653061
Precision Score: 0.8991246352646937
Recall Score: 0.8624550179928029

Confusion Matrix Visualization

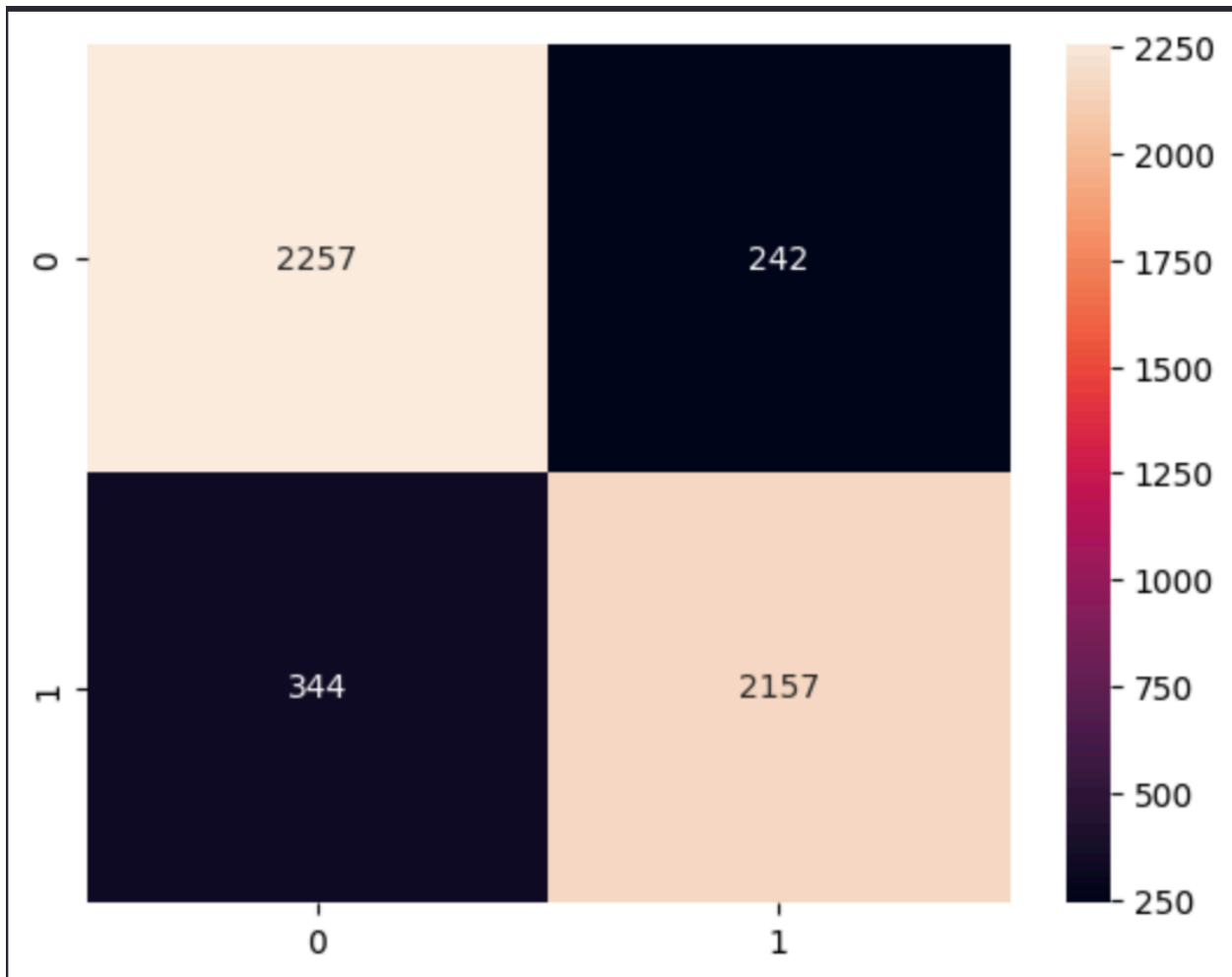
Model 1



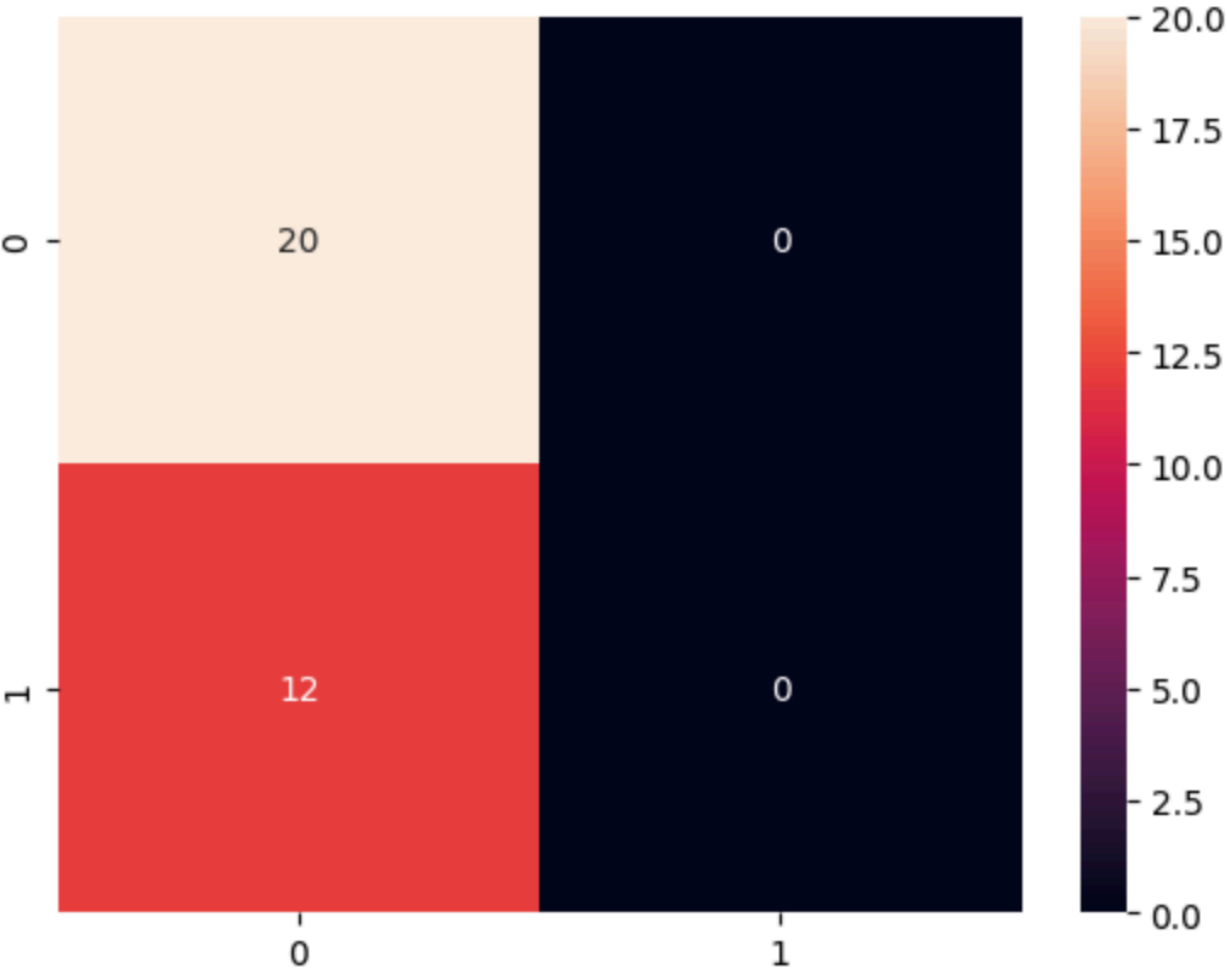
Model 2:



IMDB Model 1:

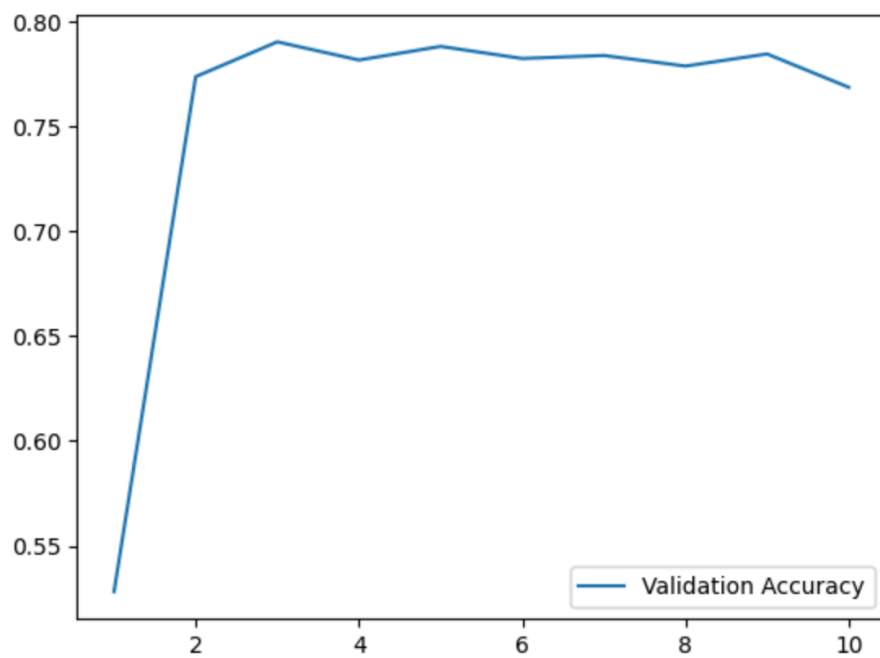
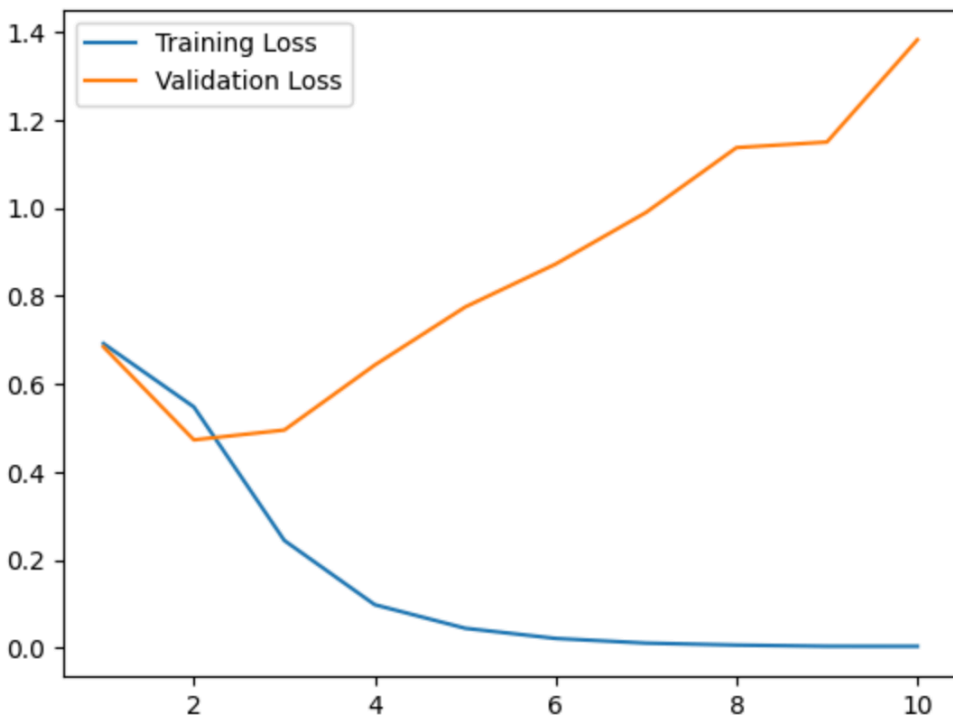


IMDB Model 2:

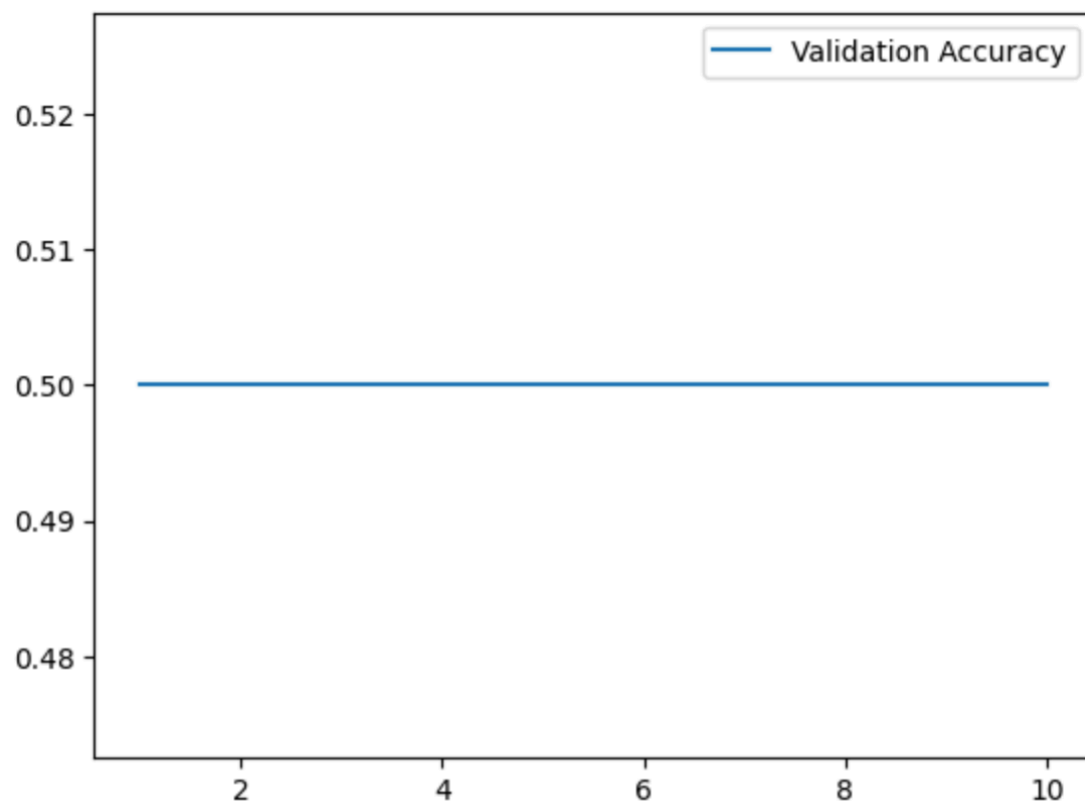
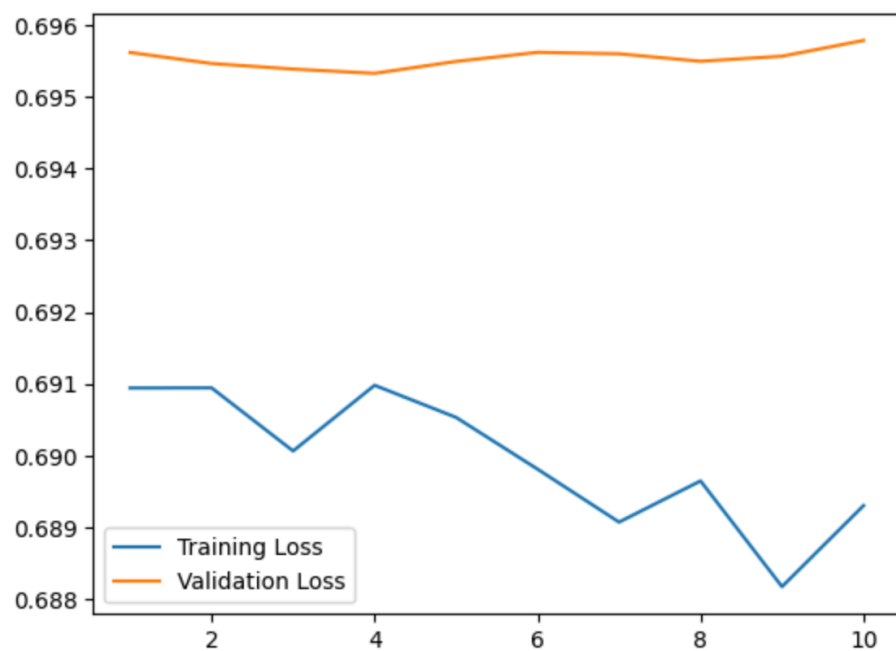


Training and Validation Loss Curves:

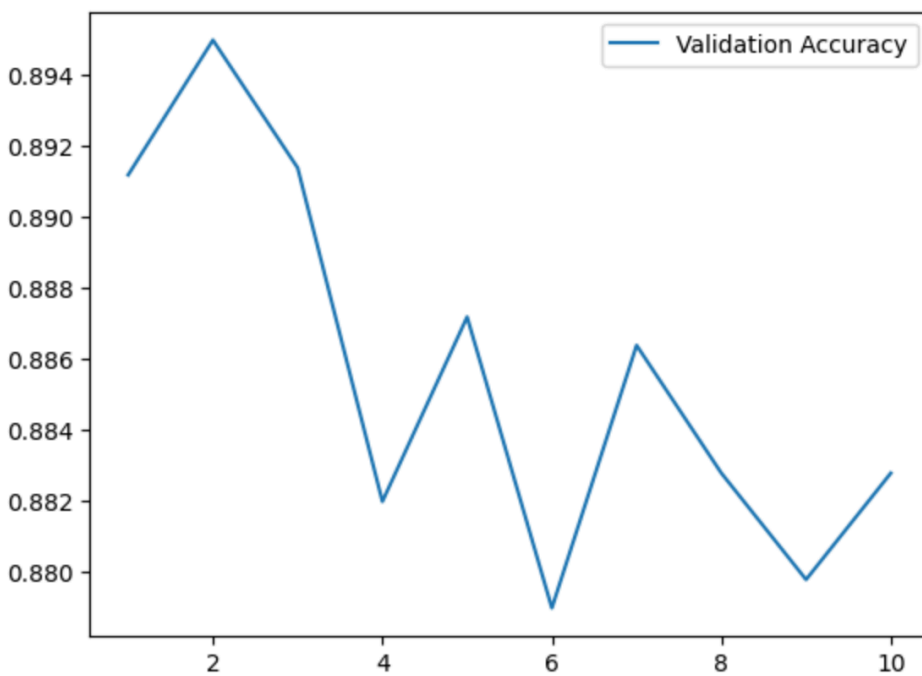
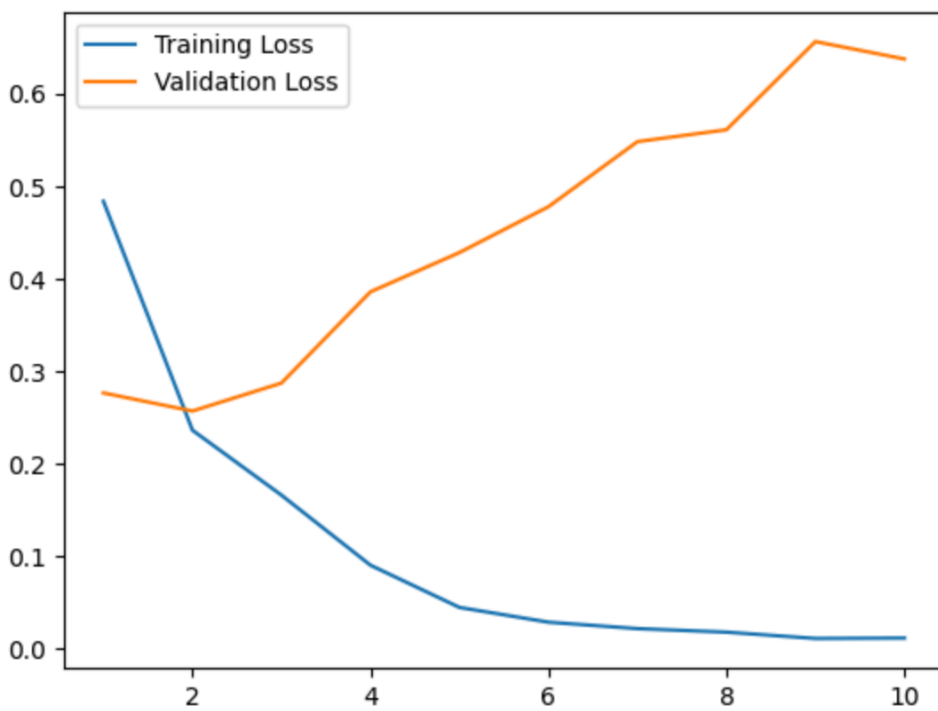
Model 1



Model 2



IMDB Model 1



IMDB Model 2:

