

## Summary result

From the example of the book, without any modifications, we found the final result for test loss and test accuracy were [0.283409982919693, 0.8870400190353394] respectively for the data trained on 4 epochs. Which means that on average, the model's predictions are off by approximately 0.283 units compared to the true labels. The test accuracy approximately 0.887 means that the model correctly classifies movie reviews as positive or negative with an accuracy of about 88.7%.

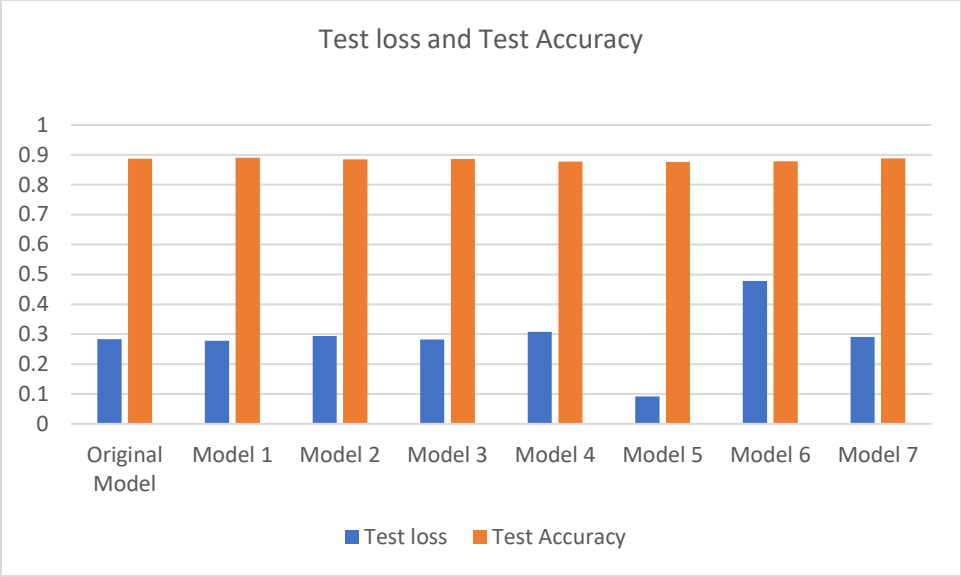
Model Specifications for test:

	Layers	Nodes	Loss Function	Activation	Dropout
Original Model	2	16,16	binary_crossentropy	relu	N/A
Model 1	3	16,16,16	binary_crossentropy	relu	N/A
Model 2	1	16	binary_crossentropy	relu	N/A
Model 3	2	16,32	binary_crossentropy	relu	N/A
Model 4	2	16,64	binary_crossentropy	relu	N/A
Model 5	2	16,16	mse	relu	N/A
Model 6	2	16,16	binary_crossentropy	tanf	N/A
Model 7	2	16,16	binary_crossentropy	relu	.5 after each layer

Comparison for test loss and test accuracy across all experimental models.

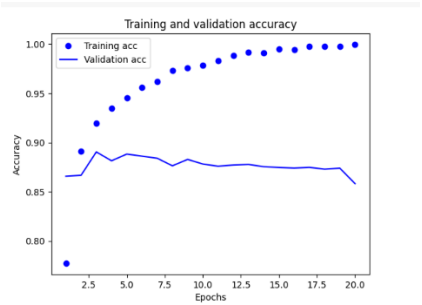
	Test loss	Test Accuracy
Original Model	0.283409983	0.887040019
Model 1	0.277820617	0.889959991
Model 2	0.293889076	0.884880006
Model 3	0.282344639	0.886039972
Model 4	0.307927161	0.877640009
Model 5	0.091067247	0.875919998
Model 6	0.47781831	0.87875998
Model 7	0.290339559	0.888040006

Model 2 has the highest test accuracy and Model 5 has lowest test loss.

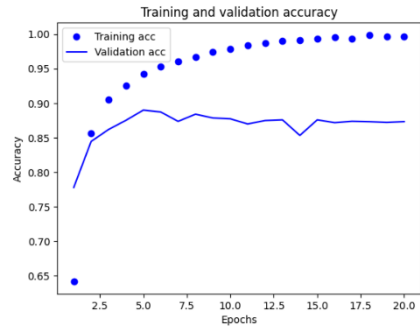


Comparison for validation accuracy and Training Accuracy across all models.

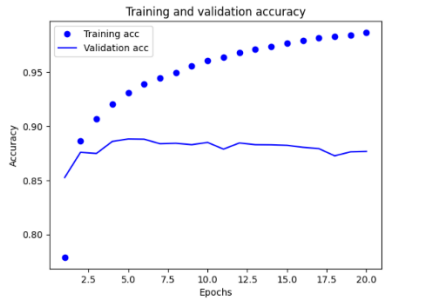
Original Model



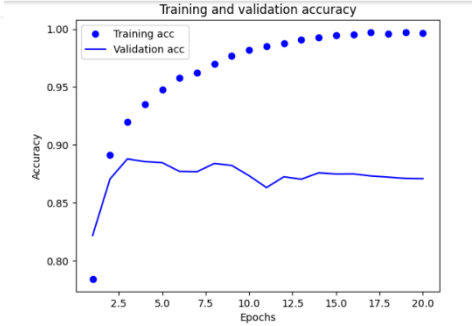
Model 1



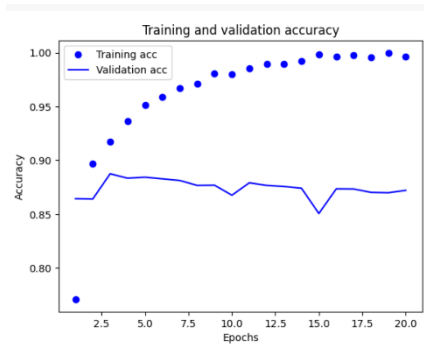
Model 2



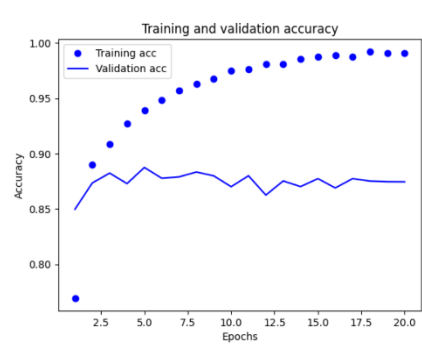
Model 3



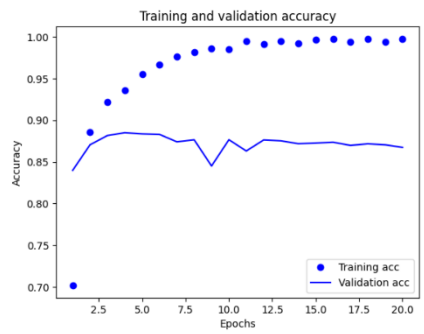
Model 4



Model 5



Model 6



Model 7

