Project Development Phase
Model Performance Test

Date	13 May 2023
Team ID	NM2023TMID17489
Project Name	CancerVision: Advanced Breast Cancer Prediction with Deep Learning

Model Performance Testing:

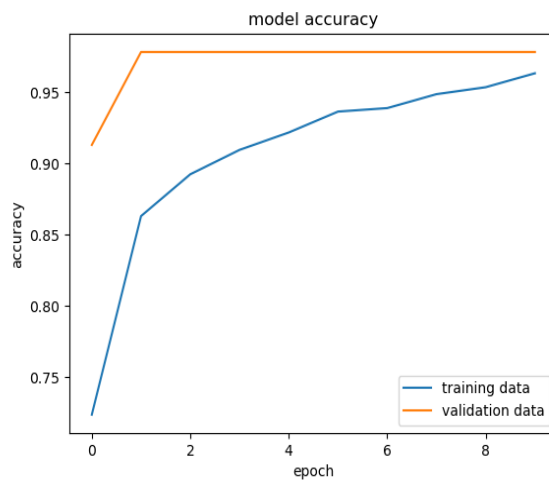1) Model Summary:
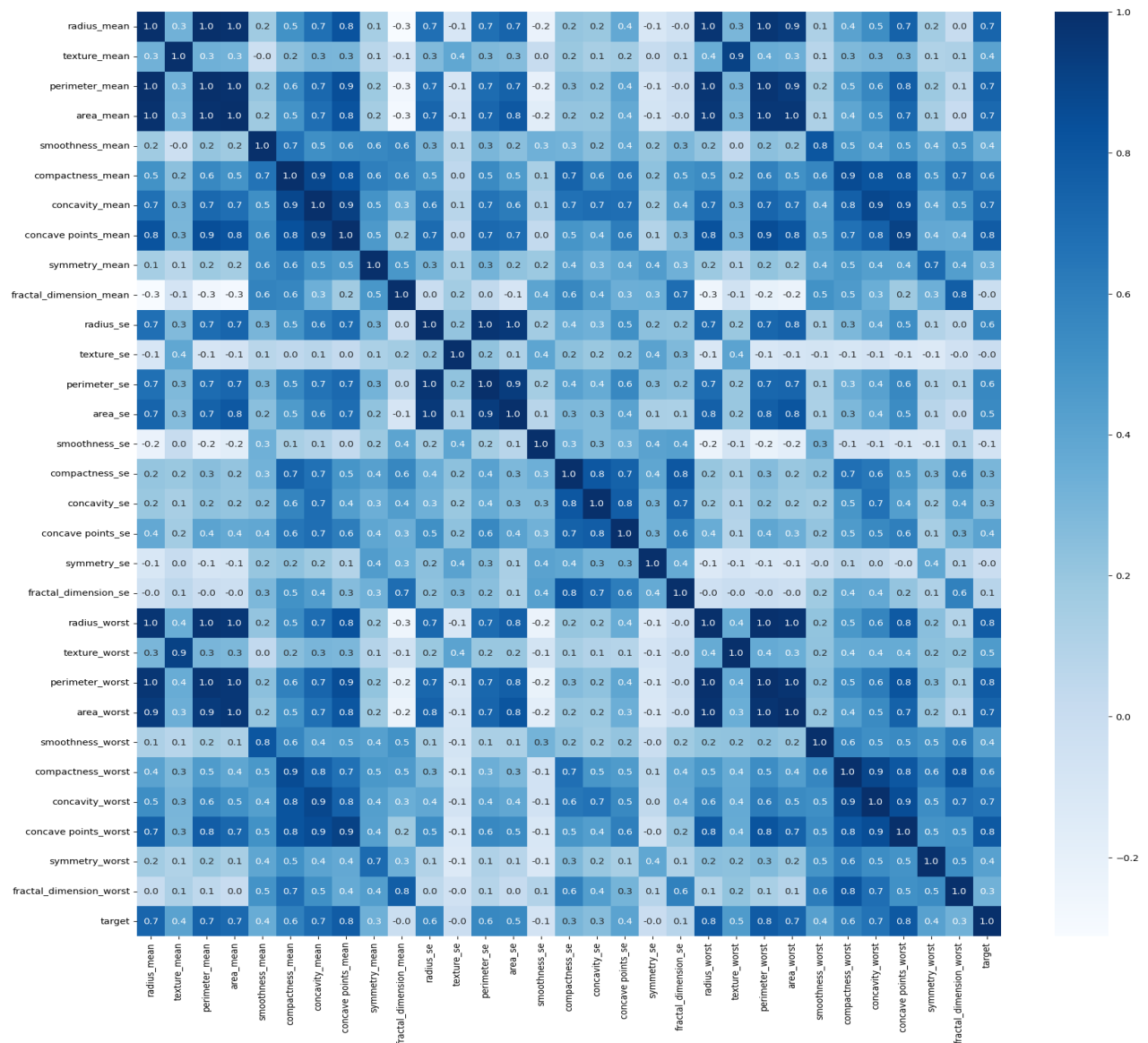
2) Accuracy:

    I.   Training Accuracy - 0.9737

   II.   Validation Accuracy -0.978

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```python
In [25]: plt.plot(history.history['accuracy'])
         plt.plot(history.history['val_accuracy'])

         plt.title('model accuracy')
         plt.ylabel('accuracy')
         plt.xlabel('epoch')

         plt.legend(['training data', 'validation data'], loc = 'lower right')
```

Out[25]: <matplotlib.legend.Legend at 0x16cfee7f1f0>


```
localhost:8888/notebooks/CANCER%20classification.ipynb
```

File   Edit   View   Insert   Cell   Kernel   Widgets   Help   Not Trusted | Python 3 (ipykernel)

```python
In [27]: loss, accuracy = model.evaluate(X_test_std, Y_test)
         print(accuracy)

         4/4 [==============================] - 0s 3ms/step - loss: 0.1273 - accuracy: 0.9737
         0.9736841917037964
```

In [28]: print(X_test_std.shape)