

1.0000 - val_loss: 1.0865 - val_accuracy: 0.5283

Epoch 50/50

41/41 [=====] - 0s 7ms/step - loss: 0.0196 - accuracy:

1.0000 - val_loss: 1.0933 - val_accuracy: 0.5283

5 Evaluate Model

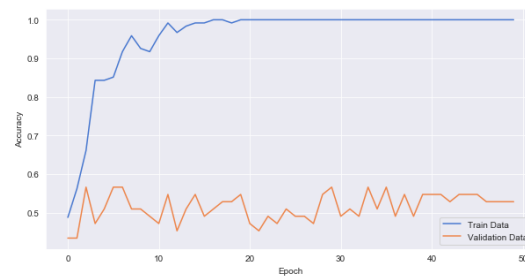
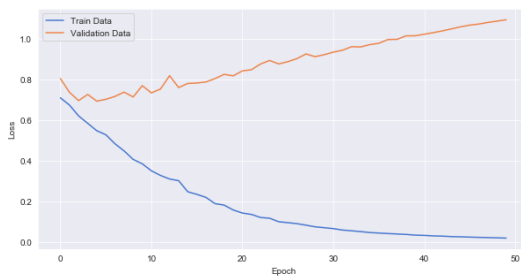
Observe loss and accuracy plots for train and validation data.

Awful, look up new strategies / approaches to improve model.

```
[88]: plt.figure(figsize=(22, 5))
plt.subplot(1, 2, 1)
plt.plot(model_training.history['loss'])
plt.plot(model_training.history['val_loss'])
plt.ylabel('Loss')
plt.xlabel('Epoch')
plt.legend(['Train Data', 'Validation Data'])

plt.subplot(1, 2, 2)
plt.plot(model_training.history['accuracy'])
plt.plot(model_training.history['val_accuracy'])
plt.ylabel('Accuracy')
plt.xlabel('Epoch')
plt.legend(['Train Data', 'Validation Data'])

plt.show()
```



Obtain predictions and accuracy on Test data.

```
[89]: model.predict(X_test)
```

```
[89]: array([[8.2091832e-01],
           [2.5890559e-02],
           [3.8709021e-01],
```