Consolidated Final Model

Experiment Number	Model	Result	Decision + Explanation
1	Conv3D	OOM Error	Reduce the batch size and reduce the number of neurons in the layer
2	Conv3D	Training Accuracy:0. 99 Validation Accuracy:0.81	Overfitting Adding some dropout layers
3	Conv3D	Training Accuracy:0. 65 Validation Accuracy:0.52	Validation Didn't improve. Learning rate reduced to 0.0002
4	Conv3D	Training Accuracy:0. 76 Validation Accuracy:0.72	Overfitting reduced but accuracy has not improved
5	Conv3D	Training Accuracy:0. 83 Validation Accuracy:0.76	Adding dropouts to improve accuracy
6	Conv3D	Training Accuracy:0. 84 Validation Accuracy:0.69	Adding dropout reduced validation accuracy
7	Conv3D	Training Accuracy:0. 82 Validation Accuracy:0.73	Accuracy Remains the same. Using CNN+LSTM
8	CNN + LSTM	Training Accuracy:0. 93 Validation Accuracy:0.85	CNN-LSTM model we get a best validation accuracy of 85%
Final Model	CNN + LSTM	Training Accuracy:0. 93 Validation Accuracy:0.85	CNN-LSTM model we get a best validation accuracy of 85%