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| **Experiment Number** | **Model** | **Result** | **Decision + Explanation** |
| 1 | Conv3D | Training Accuracy=80%  Valid Accuracy= 85% | 8,64,101 parameters in the model |
| 2 | Conv3D | Training Accuracy=82%  Valid Accuracy= 74% | Reduce the parameters by decreasing the number of dense layers.  Number of parameters now= 4,53,445.  So model is overfitting. |
| 3 | Conv3D | Training Accuracy=72%  Valid Accuracy= 71% | Tried with different batch sizes and epochs |
| 4 | Conv3D | Training Accuracy=75%  Valid Accuracy= 81% | Tried with other batch sizes and epochs |
| 5 | Conv3D | Training Accuracy=77%  Valid Accuracy= 78% | Maximum accuracy here and also model is not overfitting.  # of parameters= 4,53,445 |
| 6 | CNN+RNN | Training Accuracy=56%  Valid Accuracy= 50% | 1,56,212 parameters in the model |
| 7 | CNN+RNN | Training Accuracy=93%  Valid Accuracy= 71% | Added a dense layer in the model  Number of parameters now= 4,84,645  It is overfitting |
| 8 | CNN+RNN | Training Accuracy=91%  Valid Accuracy= 80% | Tried with other batch sizes and epochs |
| 9 | CNN+RNN | Training Accuracy=94%  Valid Accuracy= 83% | Tried with different batch sizes and epochs |
| **Final Model** | CNN+RNN | Training Accuracy=94%  Valid Accuracy= 83% | Maximum accuracy here and also model is not overfitting. |