**CONSOLIDATED FINAL MODEL – WRITE UP**

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| **Experiment Number** | **Model** | **Result** | **Decision + Explanation** | **Parameters** |
| **1** | **Conv3D** | **Throws Generator error – OOM error** | **Crop the images correctly, try to overfit on less amount of data** | 1,736,389 |
| **2 – Model 1** | **Conv3D** | **Training Accuracy: 0.99**  **Validation Accuracy:0.77** | **Overfitting**  **Tried reducing image resolution** | 1,117,061 |
| **3 – Model 2** | **Conv3D** | **Training Accuracy: 0.90**  **Validation Accuracy:0.83** | **Trying reducing filter size** | 3,638,981 |
| **4 – Model 3** | **Conv3D** | **Training Accuracy: 0.84**  **Validation Accuracy:0.83** | **Trying adding more layers** | 1,762,613 |
| **5- Model4** | **Conv3D** | **Training Accuracy: 0.89**  **Validation Accuracy:0.76** | **Adding a drop out layer** | 2,556,533 |
| **6- Model5** | **Conv3D** | **Training Accuracy: 0.91**  **Validation Accuracy:0.69** | **Adding dropouts has further reduced validation accuracy as its not to learn generalizable features.**  **Trying reducing number of parameters** | 2,556,533 |
| **7- Model6** | **Conv3D** | **Training Accuracy: 0.92**  **Validation Accuracy:0.77** | **Since validation accuracy has also increased. Trying reducing parameters further** | 696,645 |
| **8- Model7** | **Conv3D** | **Training Accuracy: 0.86**  **Validation Accuracy:0.77** | **Since overfitting is reducing. Trying reducing parameters further** | 504,709 |
| **9- Model8** | **Conv3D** | **Training Accuracy: 0.87**  **Validation Accuracy:0.77** | **We see no further improvement in accuracy. Hence trying RNN** | 230,949 |
| **10- Model9** | **Conv3D** | **Training Accuracy: 0.92**  **Validation Accuracy:0.85** | **Best Model – it used CNN with LSTM** | 1,657,445 |
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