**Write-Up**

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| **Experiment Number** | **Model** | **Result** | **Decision + Explanation** |
| **Sample Model** | **Conv3D** | **Accuracy was not the concern. The code running was.**  **Though Accuracy: 16%** | **Using the basic set of Images just to understand if the code is working.** |
| **Model 1A** | **Conv3D** | **Accuracy: 23%** | **Using the cropping of Image only.** |
| **Model 1B** | **Conv3D** | **Accuracy: 21%** | **Using data augumentation.** |
| **Model 2** | **Conv3D** | **Accuracy: 23%** | **Higher number of layers are used. Training time increased.** |
| **Model 3A** | **CNN+LSTM** | **Accuracy: 63%** | **Substantial increase even with only data cropping** |
| **Model 3B** | **CNN+LSTM** | **Accuracy: 67%** | **Moderate increase even with all kinds of augumentations.** |
| **Model 4A** | **Xception+GRU[1 layer]** | **Accuracy: 69%** | **Best performing model till now.**  **Only with data cropping.** |
| **Model 4B** | **Xception+GRU[3 layers]** | **Accuracy: 71 %** | **Best performing model**  **Almost similar, if not better.** |

**Link for Model file:**

**https://drive.google.com/file/d/1D\_202k5TsS04Ph6KZf13g\_bYh-n9FkMQ/view?usp=sharing**