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| **Experiment Number** | **Model** | **Result** | **Decision + Explanation** |
| **1** | **Conv3D** | **Throws Generator error** | **Cropped the images in square shape of 120 x 120** |
| **2** | **Conv3D** | **Model accuracy was very low.** | **Adding one more Conv3D layer**  **Adding BatchNormalization after every Conv3D layer with Dropout** |
| **3** | **Conv3D** | **Accuracy: 0.22** | **Increasing number of images per video.**  **Reducing batch size to 60.**  **Reducing filter size in 2nd Conv3d layer** |
| **4** | **Conv3D** | **Accuracy: 0.388** | **Accuracy seems to be improving hence increasing number of epochs to 60** |
| **5** | **Conv3D** | **Accuracy: 0.66**  **Val accuracy: 0.62** | **Trying ConvLSTM as Conv3D not giving desired accuracy** |
| **6** | **ConvLSTM** | **Accuracy: 0.13**  **Val accuracy: 0.25** | **Increasing batch size to 64**  **Increasing number of frames to 20**  **Adding one more Conv2D layer with BatchNormalization and MaxPooling2D** |
| **7** | **ConvLSTM** | **Accuracy : 0.64**  **Val accuracy: 0.5** | **Adding one more Conv2D layer**  **Increasing number of epochs to 35** |
| **8** | **ConvLSTM** | **Accuracy : 0.85**  **Val accuracy: 0.75** | **Building a similar model with Conv3D to compare results** |
| **9** | **Conv3D** | **Accuracy : 0.95**  **Val accuracy: 0.75** | **Final model** |