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| **Experiment Number** | **Model** | **Model-No** | **Result** | **Decision + Explanation** |
| **1** | **Conv3D** | **1** | **Total params: 3,745,925**  **Accuracy: 78% Validation Accuracy:64%** | **used more images with 80,80 with 18 image . best results Accuracy: 75% Validation Accuracy:74%,** |
| **2** | **Conv3D** | **2** | **Total params: 14,814,725**  **Throws Generator error** | **Crop the images correctly, try to overfit on less amount of data** |
| **4** | **Conv3D** | **3** | **Total params: 6,557,189**  **Accuracy:96%, Validation Accuracy:67%** | **This model is overfitting, reduced the size of image to 80,80** |
| **5** | **Conv3D** | **4** | **Total params: 6,557,189**  **Accuracy: 89%, Validation Accuracy: 71%** | **used more images with 80,80 still overfitting** |
| **6** | **Conv3D** | **5** | **Total params: 9,440,773**  **Accuracy: 90% Validation Accuracy: 59%** | **Overfitting** |
| **7** | **CONV2D + GRU** | **1** | **Total params: 1,918,437**  **Accuracy: 97% Validation Accuracy: 74%** | **Reduce Cropping** |
| **8** | MobileNet and GRU | **1** | **Total params: 3,693,253**  **Accuracy: 88% Validation Accuracy: 91%** | **This is the best model so far but I have augmented data also fed less image to model ,other model result can improved using this method but h5 file I have attached Epoch 4 (Accuracy: 86% Validation Accuracy: 84%), due to less resources we cant not complete full run.** |