

Gesture Recognition

Experiment Number	Model	Result	Decision + Explanation
1	Conv3D batch size = 100 LR = 0.01	Accuracy -0.15	Model not learning, accuracy does not improve. Crop the images to 100px
2	Conv3D batch size = 51	Accuracy -0.15	Adding more layers, accuracy is low and loss does not increase
3	Conv3D	Accuracy: 0.21	No improvement in model, increasing layers, reducing kernel size for next step
4	Conv3D	Accuracy: 0.25	Adding batch normalization, Adding dropouts
6	Conv3D	Accuracy: 0.3	Model does not giving desired accuracy
7	TimeDistributed ConvLSTM	Accuracy: 0.5	Changed model to conv2d + LSTM
8	TimeDistributed ConvLSTM	Accuracy: 0.5	Reduced number of layers, added batch normalization, using global average pooling instead of flatten layer
Final Model	TimeDistributed ConvLSTM	Accuracy: 0.89	Validation accuracy is good