This is a sample write-up. The write-up need not be in tabular form.

It doesn’t state that ConvLSTM will give you better results than Conv3D. The explanation should be as detailed as possible so that the logic behind the decision is conveyed. Also, there are a lot of things you can experiment with in the generator function and elsewhere. Please do not forget to specify the exact metric values, here Accuracy which drives your decision.

You can draw inspiration from the concepts taught in the Industry demo in CNNs to experiment with the data and different architectures.

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| --- | --- | --- | --- |
| **Experiment Number** | **Model** | **Result** | **Decision + Explanation** |
| **1** | **Conv3D** | **Throws Generator error when image has different size** | Cropping :- In cropping we will center crop the image to retain the middle of the frame  CONV3D will throw error if the inputs in a batch have different shapes. So we will convert each image of the train and test into a matrix of size 120\*120 |
| **2** | **Conv3D** | **Model not trainable as a lot of parameters** | Convolutional 3D Model :- These are parameters we have take for the model building :-  Four Convolutional layers.  Filters [8,16,32,64]  Three Dense Layer :- [256, 128, 5]  Max pooling layers  Optimizer as Adam.  Taking initializing parameter to train the model  Epoch 20  Batch Size 10  Rows :- 120  Columns :- 120  Frames :- 30  Channels :- 3 (RGB) |
| **3** | **Conv3D** | **Accuracy:** 0.8239  **loss**: 0.4088 | In first iteration of training the model |
| **4** | **Conv3D** | **Accuracy** 0.8537  **Loss**: 0.4088 | In second iteration of training the model |
| **Final Model Result** | **Conv3D** | **Accuracy** 0.9149  **Loss**: 0.2415 | In nth iteration of training the model |