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 | Model not trained properly  train\_acc:0.23  val\_acc:0.42 | Use less amount of sample images(10) in a video and 10 epochs only |
| 2 | Conv3D | Model not trainable  train\_acc:0.24  val\_acc:0.39 | Use all sample images(30) in a video and 10 epochs only |
| 3 | Conv3D | train\_acc: 0.29  val\_acc: 0.22 | Use all sample images(30) in a video and 10 epochs with increase learning rate from 0.001 to 0.005 |
|  |  | train\_acc: 0.39  val\_acc: 0.55 | Use all sample images(30) in a video and 25 epochs with learning rate 0.005 |
|  |  |  |  |
| 2 | Conv3D | Accuracy: 0.32 | Reduce Cropping |
| 3 | Conv3D | Accuracy : 0.38 | ……………… |
|  |  |  |  |
| l-1th | Conv3D | Accuracy: 0.45 | Try ConvLSTM as Conv3D not giving desired accuracy |
| lth | ConvLSTM | Accuracy: ……. | ………….. |
|  |  |  |  |
| Final Model | ………………. | …………. | ………………… |