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** | **Accuracy: 45%** | ***Model 1 is underfitting.*** |
| **2** | **Conv3D** | **Accuracy: 18%** | ***Model 1 is overfitting with the Validation Accuracy being very low compared to Training Accuracy*** |
| **3** | **Conv3D** | **Accuracy: 76%** | ***Thou the Accuracy is good it fluctuates quite a bit.*** |
| **4** | **CNN + RNN using GRU** | **Accuracy: 29%** | ***Model is overfitting with the Validation Accuracy being very low compared to Training Accuracy*** |
| **5** | **CNN + RNN using GRU** | **Accuracy: 80%** | *Displaying good accuracy for Validation and Training Accuracy. Still see some over-fitting issues.* |
| **6** | **CNN + RNN using GRU** | **Accuracy: 63%** | **Validation Accuracy is quite low and see early signs of over-fitting** |
| **7** | **CNN + RNN using GRU** | **Accuracy: 72%** | ***Thou the Accuracy is good it fluctuates quite a bit.*** |
| **8** | **CNN + RNN using LSTM** | **Accuracy: 76%** | **Trainable Parameters are quite high and can see over fitting** |
| **9 (Final Model)** | **CNN + RNN using LSTM** | **Accuracy: 82%** | **Model is giving better accuracy with lesser params thou a bit choppy in terms of learning** |
| **10** | **RESNET** | **Unable to determine** | **The Model was taking too long to get trained and with the limited resources training the model was running into “Lack of resources” error quite often** |