Gesture Recognition Case Study

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Please find below the observations, results and accuracy while using the model against the given train data

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| **Model** | **Experiment #** | **Result** | **Decision + Explanation** |
| Conv 3D | 1 | Image size error is not defined | Image size then need to be defined while reading the dataset |
| Conv 3D | 2 | Model stopped in Epoch 1 | Batch size is larger, and the fix provided was by changing the batch size |
| Conv 3D | 3 | Model taking longer duration | Steps for epoch is changed |
| Conv 3D | 4 | Model taking longer duration | Added dropout thus decreasing the trainable parameters |
| Conv 3D | 5 | Accuracy: 0.62 | After fixing all errors, we tried without dropout |
| Conv 3D | 6 | Accuracy: 0.65 | Higher the image size and lower the accuracy thus reducing further |
| Conv 3D | 7 | Accuracy: 0.81 | We get the max accuracy of 81 |
| Conv GRU | 8 | Accuracy: 0.93 | We get the max accuracy of 93% with the same data and generator code for the new model using ConV + GRU |