**Write up for Gesture Recognition**

We started with creating the generator, like setting the batch size and number. Since the images were of different resolutions we resized it to the same resolution and also normalized the images. We have considered Adam Optimiser.

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| **Experiment Number** | **Model** | **Result** | **Decision + Explanation** |
| 1 | 3D Conv | Epoch : 20; Batch size : 40  categorical\_accuracy: **0.6955**; al\_categorical\_accuracy: **0.6833** in the 18th Epoch | Change epoch and batch size |
| 2 | 3D Conv | Epoch : 10; Batch size : 50  categorical\_accuracy: **0.7964**; val\_categorical\_accuracy: **0.7800** in the 10th Epoch | Change epoch and batch size |
| 3 | 3D Conv | Epoch : 20; Batch size : 60  categorical\_accuracy: **0.8627**; val\_categorical\_accuracy: **0.8167** in the 19th Epoch | Change epoch and batch size |
| 4 | 3D Conv | Epoch : 20; Batch size : 30  categorical\_accuracy: **0.9216**; val\_categorical\_accuracy: **0.7667** in the 15th Epoch | This shows signs of over fitting |
| 5 | 3D Conv | Epoch : 10; Batch size : 40  categorical\_accuracy: **0.8374**; val\_categorical\_accuracy: **0.8167** in the 8th Epoch | We tried to do some additional tweaks to the epoch |
| 6 | 3D Conv | Epoch : 30; Batch size : 40  categorical\_accuracy: **0.8062**; val\_categorical\_accuracy: **0.8500** in the 30th Epoch | We see that the categorical and validation accuracy is good, hence we can go ahead with this model |

Another model which we can consider is experiment 3 and 5 since; they also have good accuracy numbers