**Experiment Writeup:**

**Conv3D Results:**

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| **Experiment** | **Model** | **Result** | **Decision + Accuracy** |
| 1 | Conv3D | OOM Error | Batch size reduced from 64 to 32 |
| 2 | Conv3D | Model Overfitting | Dropping few layers |
| 3 | Conv3D | OOM Error | Batch size reduced from 32 to 10 |
| 4 | Conv3D | Model Generalizing | Train\_acc = 87%, val\_acc = 75% |
| 5(Final Model) | Conv3D | Model Achieved good Accuracy | Train\_acc = 79%,  Val\_acc = 70% |

**CNN + RNN Results:**

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| --- | --- | --- | --- |
| **Experiment** | **Model** | **Result** | **Decision + Accuracy** |
| 1 | CNN + LSTM | OOM Error | Image size is large, Resizing image |
| 2 | CNN + LSTM | Model Achieved Good Accuracy | Train\_acc = 71%, val\_acc = 66% |
| 3 | CNN + LSTM | Model Accuracy dropped after image resize | Train\_acc = 66%, val\_acc = 58% |
| 4 | CNN + GRU | OOM Error | Batch\_size changed from 32 to 10 again |
| 5 | CNN + GRU | Model Achieved Good Accuracy | Train\_acc = 77%,  Val\_acc = 71% |

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