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| **Experiment Number** | **Model** | **Result** | **Decision + Explanation** |
| **1** | **Conv3D: Base Model** | **Low validation accuracy** | **Increase the epochs and batch size** |
| **2** | **Conv3D: Increased batch size and epoch** | **Good training and validation accuracy** | **A simple model that works fairly good with a considerably low amount of trainable paramenters** |
| **3** | **Conv3D: Increased image size and higher number of image input from each video** | **Kernel Dead** | **Kernel dead due to high number of epochs and increased batch size.** |
| **4** | **Conv3D: Model 2 + increased frames from each video** | **Model Underfitting** | **Change the basic structure of the model from conv3d** |
| **5** | **CNN + LSTM** | **Accuracy: 0.45** | **Seeing a steady increase in the accuracy, train the model for a bit longer** |
| **6** | **CNN + LST** | **Good training and validation accuracy** | **The model gives almost the same results as experiment 2, but the training time is considerably higher** |
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| **Final Model** | **Experiment number 2 ( Conv3d with increased batch size and epoch)** | **98% Training accuracy**  **85% Validation Accuracy** | **The simplest model by far but works the best** |