|  |  |  |  |
| --- | --- | --- | --- |
| **Experiment Number** | **Model** | **Result** | **Decision + Explanation** |
| **1** | **Conv3D** | **Accuracy: 0.4139 Validation accuracy: 0.6000** | **Three layers in model (32, 64, and 128 filters). No drop outs but batch normalization used for each layer. Batch size: 16. Number of Epoch: 1N. Using only 13 images out of 30.** |
| **2** | **Conv3D** | **Accuracy: 0.9940 Validation accuracy: 0.6700** | **Same as experiment – 1 but number of epochs: 10.** |
| **3** | **Conv3D** | **Accuracy: 0.2136 Validation accuracy: 0.2500** | **Changing experiment – 1 settings. Adding drop out for each layer. Rest remains same.** |
| **4** | **Conv3D** | **Accuracy: 0.9297 Validation accuracy: 0.5100** | **Same as experiment – 3 but number of epochs: 10. Validation accuracy is still not good as experiment – 2.** |
| **5** | **Conv3D** | **Accuracy: 0.9806 Validation accuracy: 0.6800** | **Same as experiment – 4 but number of epochs: 25. Validation accuracy is the best one so far.** |
| **6** | **Conv3D** | **Accuracy: 0.9319 Validation accuracy: 0.5500** | **Changing batch size to 32 and number of epochs to 20. Rest remains same. Validation accuracy has dropped.** |
| **7** | **Conv3D** | **Accuracy: 0.9330 Validation accuracy: 0.6100** | **Keeping batch size to 16 and number of epochs to 20. Increasing the sample images from 13 to 19. Model remains same. Validation accuracy increased.** |
| **8** | **Conv3D** | **Accuracy: 1.0000 Validation accuracy: 0.7500** | **Batch size: 16. Number of Epochs: 20. Number of sample images: 13. Adding additional layer to model (16, 32, 64 and 128 filters). No dropout in the layers. Overfitting seems to happen.** |
| **9** | **Conv3D** | **Accuracy: 0.9881 Validation accuracy: 0.6500** | **Everything same as experiment – 8. Added dropout in each layer. Validation accuracy has dropped.** |