**Model Experiment**

**CNN + RNN and Convolutional3D**

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| **Experiment No** | **Model** | **Result** | **Decision + Explanation** |
| **1** | **- Model - CNN + RNN**  **- image - (120, 120)**  **- No of frame - 30**  **- Batch size - 20**  **- Num of epochs - 10** | **Training accuracy - 0.55**  **Validation accuracy - 0.28** | **Resize image correctly**  **CNN + RNN not giving desired accuracy** |
| **2** | **- Model - CNN + RNN**  **- image - (120, 120)**  **- No of frame - 15**  **- Batch size - 40**  **- No of epochs - 20** | **Training accuracy - 0.95**  **Validation accuracy - 0.31** | **Increase batch size and epochs**  **CNN + RNN giving good training accuracy but not giving desired validation accuracy** |
| **3** | **- Model - Convolutional3D**  **- image - (120, 120)**  **- No of frame - 30**  **- Batch size - 20**  **- No of epochs - 10** | **Training accuracy - 0.37**  **Validation accuracy - 0.45** | **Used convolutional3D**  **Model not giving desired accuracy** |
| **4** | **- Model - Convolutional3D**  **- image -(120, 120)**  **- No of frame - 30**  **- Batch size - 40**  **- No of epochs - 20** | **Training accuracy - 0.81**  **Validation accuracy - 0.51** | **convolutional3D with increasing batch size and epochs giving good train accuracy but not giving desired validation accuracy** |
| **5** | **- Model - Convolutional3D**  **- image - (60, 60)**  **- No of frame - 30**  **- Batch size - 40**  **- No of epochs - 20** | **Training accuracy - 0.85**  **Validation accuracy - 0.51** | **convolutional3D with resize image giving good train accuracy but not giving desired validation accuracy** |
| **6** | **- Model - Convolutional3D**  **- image - (120, 120)**  **- No of frame - 30**  **- Batch size - 60**  **- No of epochs - 20** | **Training accuracy - 0.38**  **Validation accuracy - 0.30** | **convolutional3D with increasing batch size not giving desired accuracy** |
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