

Write-up

Model	Model	Parameters	Result		Remarks
			Training accuracy	Validation accuracy	
1	CNN+ RNN	9,49,845	0.92	0.66	Overfitting as huge gap between Training and validation accuracies.
2		9,49,845	0.92	0.76	Slight improvement in validation accuracy with small increase in batch size.
3		9,49,845	0.95	0.75	No improvement in validation accuracy with small increase in batch size.
4		9,49,845	0.9	0.85	Good improvement in validation accuracy with big increase in batch size and increase in number of epochs.
5		9,49,845	0.83	0.8	Decrease in validation accuracy with big increase in batch size with more generalisability.
6		4,75,095	0.5	0.62	With addition of more feature maps, accuracy reduced drastically.
7		1,47,541	0.5	0.65	Batch normalisation to every layer has reduced the accuracy.
8	Conv3D	9,41,557	0.78	0.75	Good generalisable model but accuracy on lower side.
9		9,41,557	0.5	0.62	Batch normalisation to every layer has reduced the accuracy.
10		9,36,317	0.67	0.62	Not much effect on changing filter size

Key points:

- 1) Best model is number 4 with highest accuracy among the iterated models.
- 2) The size of the best model is 11.5 mb with 9,49,845 parameters.