* Do you get the exact same results if you run the Notebook multiple times without changing any parameters?

Answer – Yes. The results were same.

* What is the effect of adding more neurons to each Conv2D layer?

Answer – Adding more neurons can result in overfitting of the model.

* What happens if we manipulate the value of dropout?

Answer – Dropout layer helps in checking overfitting of model.

* What is the effect of adding more activation layers to the network?

Answer – Adding more activation layer helps in extracting more feature in neural network.

* What is the purpose of MaxPooling2D layer?

Answer – It helps in downsampling the input where pool\_size helps in creating a window/dimension for each stride for feature extraction.

* Does manipulating the learning rate affect the model? Justify your answer.

Answer – Yes. If the learning rate is high then model may converge quickly to a suboptimal value but if the learning rate is low then the model will train slowly and training may get stuck.