# **Voice Over Self Driving Car**

I have chosen ‘Asphalt – 8’ Game as my input data along with the keystrokes (W, S, A, D) which means Straight, Back, Left, Right. I have combined those two as a two-dimensional array and given as the input to the model and trained it. My model is a Convolutional Neural Network (CNN) and was trained at 150 epochs (Iterations).

The model has shown 99% accuracy and was tested on real-time data, that is on the same game. It has shown good results with good accuracy. However, as it was trained will less data or sometimes it may show unusual behaviour, I have used another input to use in real-time, that is the voice commands to drive the car.

I have created a Convolutional Neural Network with my voice in 4 different classes i.e., “Go”, “Stop”, “Left”, “Right”. This Voice model has also shown better results with an accuracy of 92%.

After this, I have integrated both the Models, i.e., Self - Driving Car model and Voice Model and tested on the same game. The voice model will be used only when it is needed like there are some cases where the car may crash. So, in those cases, this voice model can be used to prevent the crash.