KAL ACADEMY
NON-PROFIT CODING ACADEMY

Artificial Intelligence Deep Stack Program
Assignment 4

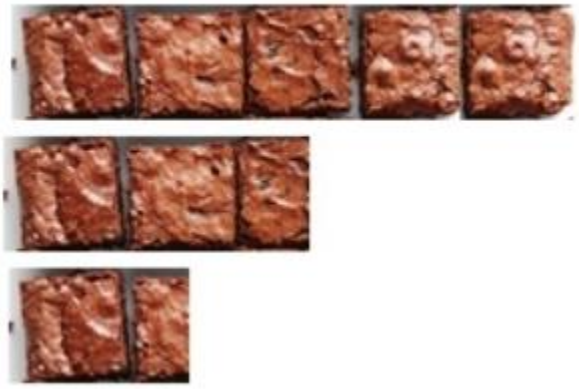
1. For higher levels of vehicle autonomy to be able to drive safely, detection of traffic signs and identifying each of the signs becomes essential for AV's to steer accordingly by classifying them. This assignment focuses on developing a convolutional neural network that reads the road sign images and classifies them correctly. Images can be found here.

   P.S: This article explains how to do this. But please do not look at it before you have tried on your own.

2. Using CNN, the primary goal of this assignment is to build a model that detects production efficiency flaws on food-processing conveyor belt.

   The following photograph shows a section of the conveyor belt that contains an acceptable level of products, in this case, portions of chocolate cakes:

However, sometimes the production slows down, and the output goes down to an alert level, as shown in the following photograph:



The alert-level image shows a gap that will slow down the packaging section of the factory dramatically.

Dataset can be found here - http://bit.ly/2VDsZez