Weekly Progress 1

Final Project

2020.04.10

Project Name: Artificial “Detelligence”

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Our final project is about building a model that can recognize hand-drawn pictures based on the data from Google Quickdraw dataset, and we want to put it into the practical application. We plan to use convolutional neural network as the classifier. So far, we have collected all datasets we need, explored them and built a simple demo which can classify two labels (2 out of 346). The accuracy of the demo is over 98%. The next step would be feeding in the entire dataset and testing the performance of the model, but it seems like the accuracy of a CNN model goes down as the number of labels goes up.

We are also thinking about creating a website that allows users to play with our work after we finish building the model. Basically, the website can provide users a place to draw, and the program will recognize this hand-drawn picture and give feedback. That’s the best way to show our work. Maybe during this process, our model can become stronger by learning from large numbers of examples and mistakes.