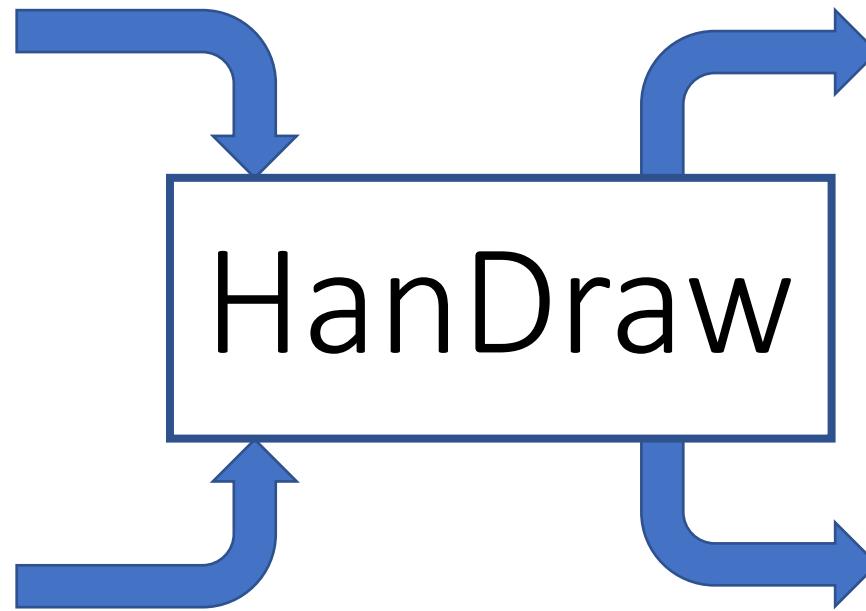
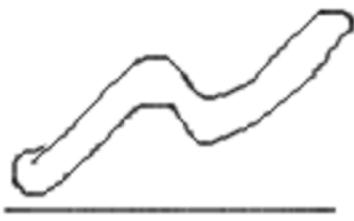


Shiva Shahrokhi



↗ The Data Incubator



Plane Tree Leaf



Can a neural network learn to recognize doodling?

Help teach it by adding your drawings to the [world's largest doodling data set](#), shared publicly to help with machine learning research.

Let's Draw!

Can you guess what
this image is?



Draw

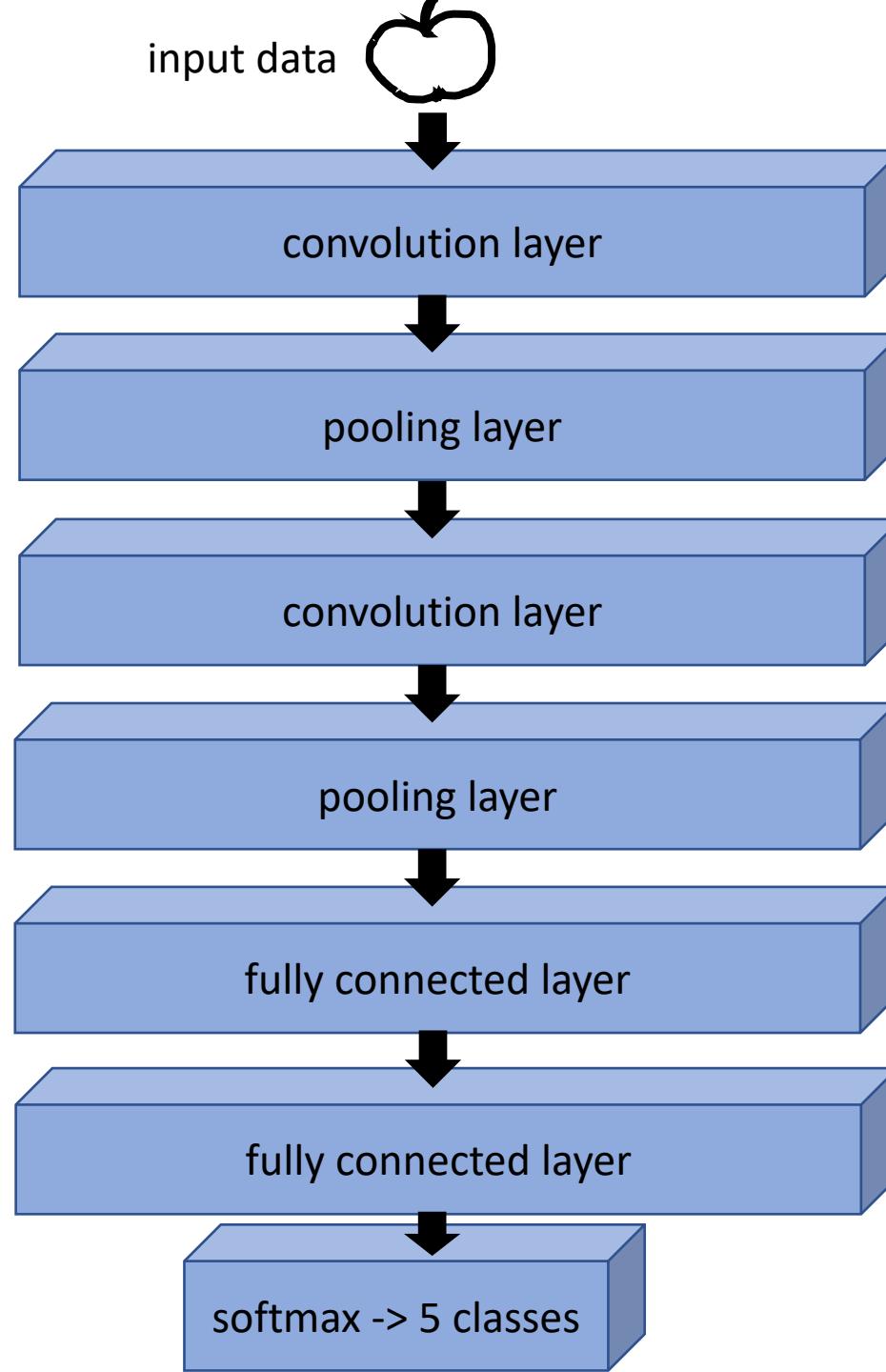
owl

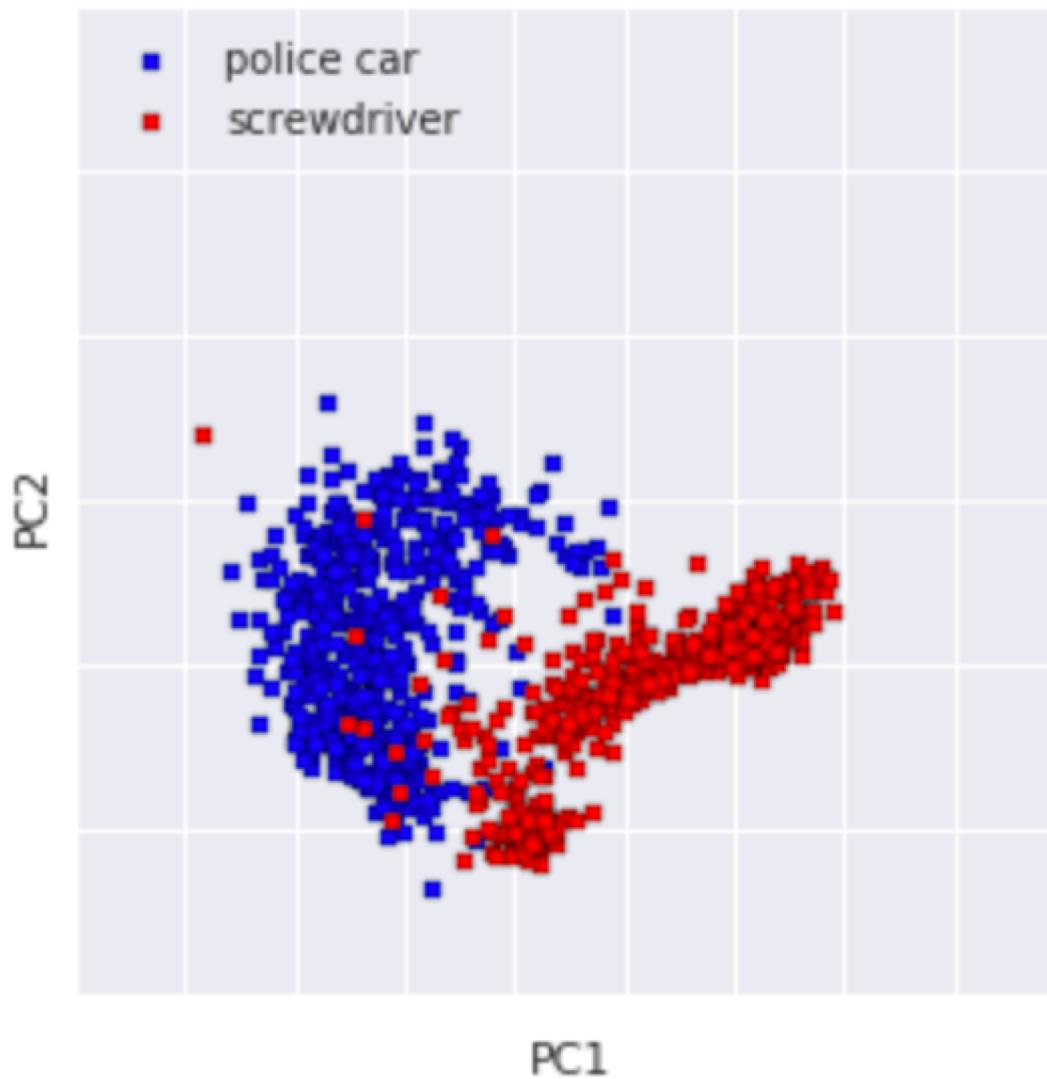
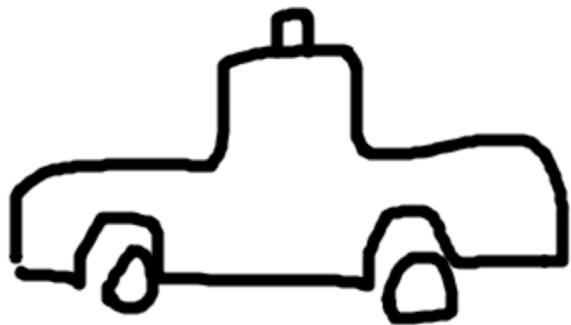
in under 20 seconds

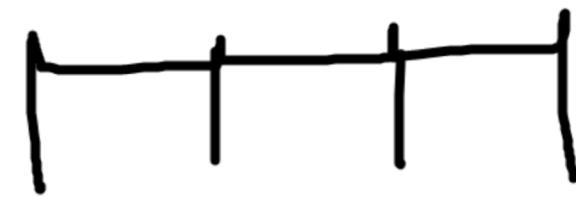
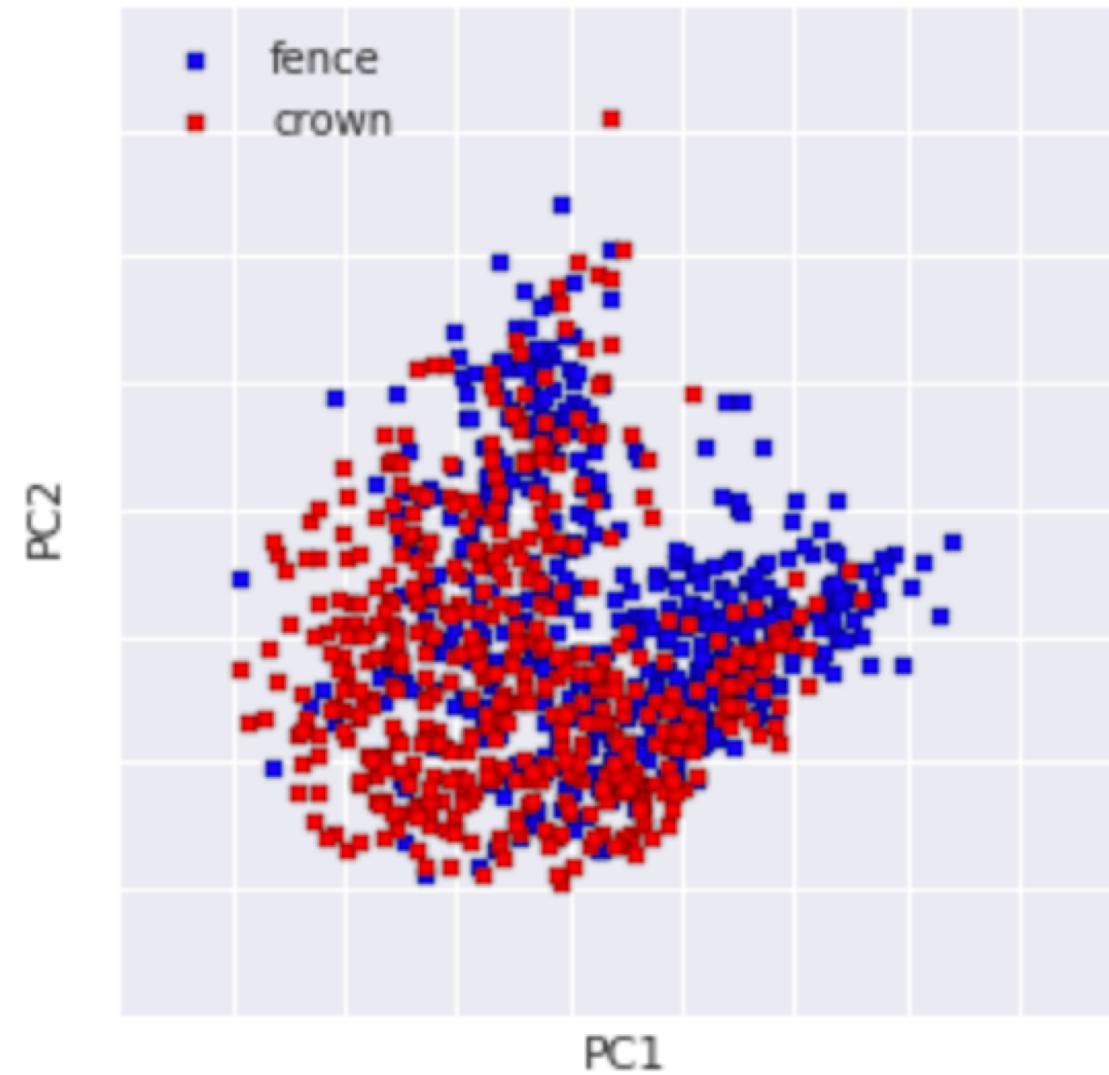
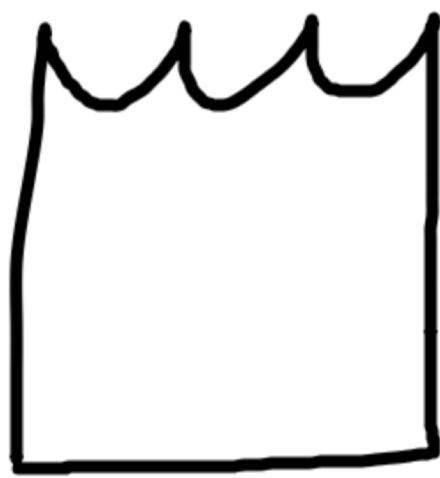
Got It!

My Initial Classifier:
CNN
only 5 classes
Accuracy: 0.72

KNN accuracy: 0.86
SVM accuracy: 0.82







Hand drawn



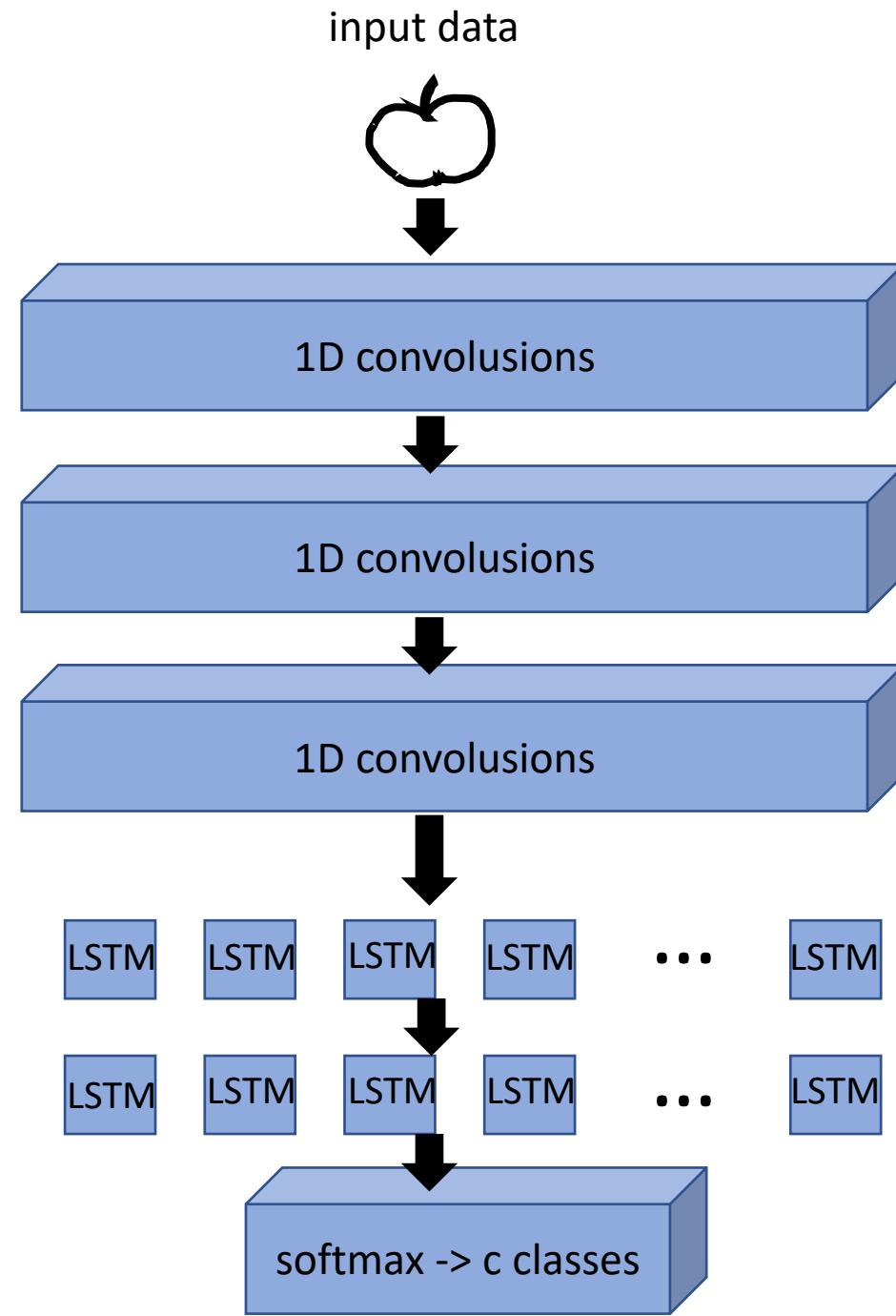
Natural



Noisy Data



My Current Classifier:
RNN
for 345 classes
Accuracy: 0.63



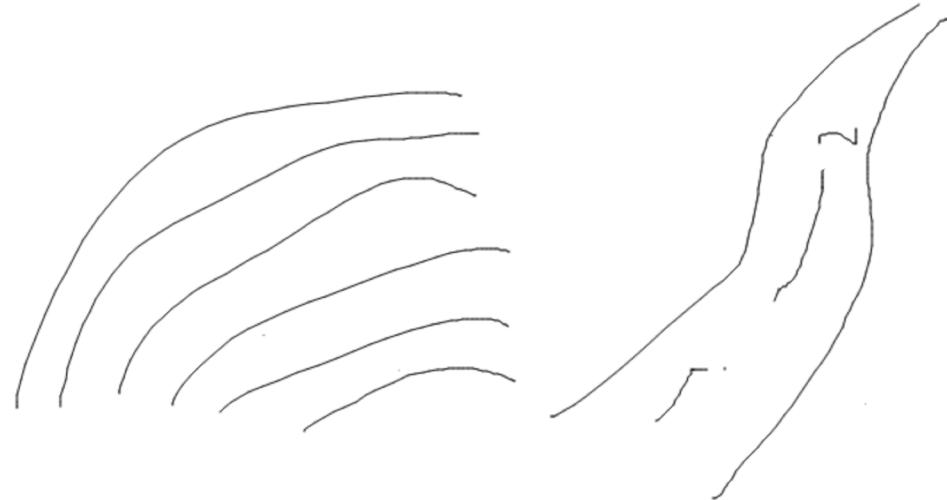
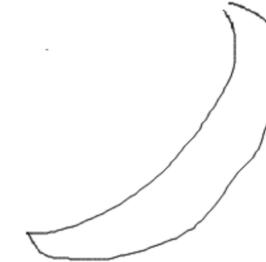
Fair Comparison for all the models on 5
classes:

RNN: 0.97

KNN: 0.86

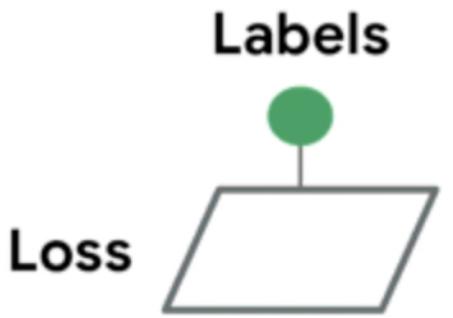
SVM: 0.82

CNN: 0.72



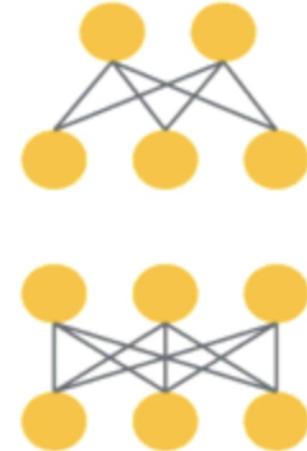
Next plan:

AdaNet:
Making the
network
better!



AdaNet

Candidates



Features

Thank you!

