Machine Learning@NTUT - Speech Recognition

TensorFlow Speech Recognition Warm-Up Challenge

Featured Prediction Competition

TensorFlow Speech Recognition Challenge

Can you build an algorithm that understands simple speech commands?

$25,000
Prize Money

Google Brain · 255 teams · 2 months to go (2 months to go until merger deadline)

Overview

We might be on the verge of too many screens. It seems like everyday, new versions of common objects are "re-invented" with built-in wifi and bright touchscreens. A promising antidote to our screen addiction are voice interfaces.

But, for independent makers and entrepreneurs, it's hard to build a simple speech detector using free, open data and code. Many voice recognition datasets require preprocessing before a neural network model can be built on them. To help with this, TensorFlow recently released the Speech Commands Datasets. It includes 65,000 one-second long utterances of 30 short words, by thousands of different people.

In this competition, you're challenged to use the Speech Commands Dataset to build an algorithm that understands simple spoken commands. By improving the recognition accuracy of open-sourced voice interface tools, we can improve product effectiveness and their accessibility.

Host Overview Data Leaderboard Rules Team My Submissions **Submit Predictions**

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The competition was launched successfully.

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Privacy **Limited**

Participation of this competition is restricted to those with access to the link below, or to those included in the whitelist below. Note that anyone is still able to view the details of this competition.

https://www.kaggle.com/t/01ec1f787af943b695917e7006f42a7c

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GitHub Classroom

GitHub Education

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MachineLearningNTUT

Manage classroom

Assignments

New assignment

Regression
Individual assignment
https://classroom.github.com/a/T43Tf4sl
Copy invitation link

Classification
Individual assignment
https://classroom.github.com/a/4JnaHLk8
Copy invitation link

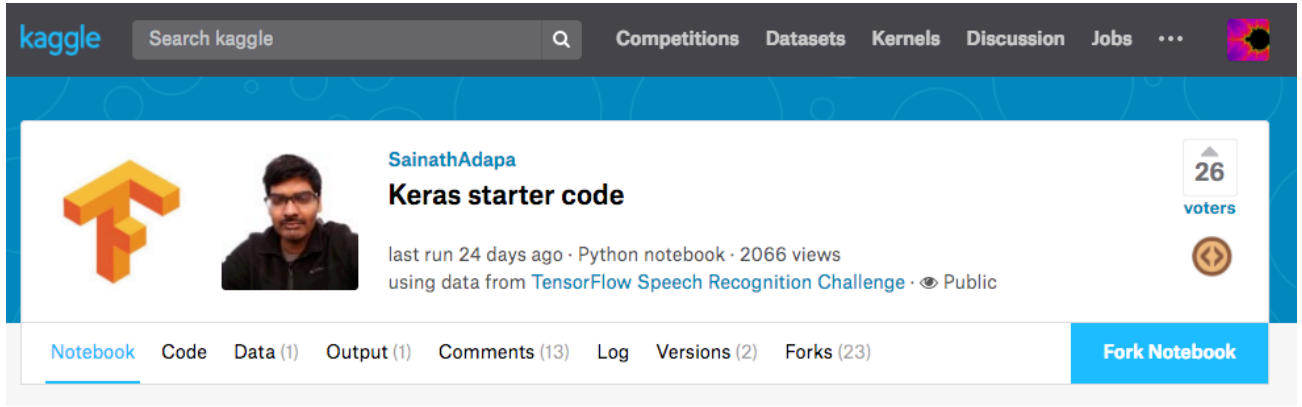
Speech Recognition - 1
Individual assignment
https://classroom.github.com/a/-a3cjs_8
Copy invitation link

Speech Recognition - 2
Individual assignment
https://classroom.github.com/a/7uYVvi0E
Copy invitation link

Computer Vision
Individual assignment
https://classroom.github.com/a/vvOVblzt
Copy invitation link

Resources

- https://www.kaggle.com/sainathadapa/keras-starter-code



- https://www.kaggle.com/alphasis/light-weight-cnn-lb-0-74