

InClass Prediction Competition

SpeechLab-GMM-EM

This is a competition for 2018-08-03 SpeechLab Ai Class (GMM, EM)

6 teams - 12 days to go

Overview

Description

Implement EM algorithm for GMM

This is a binary classification task. Features used are 2-dimensional feature. You will use Gaussian Mixture Model to accomplish the task.

Data Description

- train.txt Training data.
- · dev.txt Development data for tuning and self testing.
- test.csv Evaluation data for testing the model. Only
- sample.csv A sample submission file in the correct format

Data Format

Each line of the data file represent a sample in the below format:

- train.txt, dev.txt: Feature-Dim1 Feature-Dim2 Class-Label
- test.csv: Id, Feature-Dim1, Feature-Dim2, Class-Label

Overview

Discussion Leaderboard

Rules

Team

My Submissions

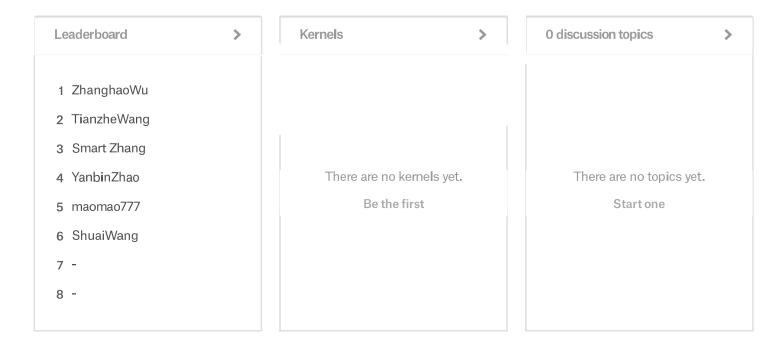
Submit Predictions

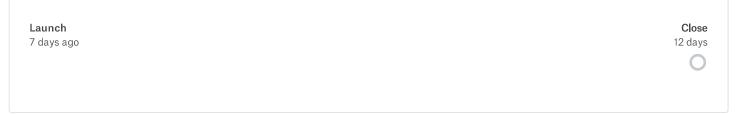
Note that Both features and labels are given for train.txt and dev.txt. Unly features are given for test.txt.

Requirement

- 1. Implement training and testing algorithms for GMM. Programmes must be written in C/C++ or python or Matlab.
- 2. Use train.txt for training and check the result on dev.txt. The complexity of GMM and initialisation of GMM will be decided by you.
- 3. Once the final GMM configuration is fixed, you will perform classification on test txt and save the result in the same format as dev.txt.
- 4. Final submission should include:
- 5. Final submission should include:

- o a. Detailed report including:
 - i. Initialisation of GMM
 - ii. GMM parameter tuning process (likelihood change, result on dev.txt etc.)
 - o iii. Analysis and discussion
- o b. Classification result: test.txt with label
- c. Source code or tools which can be compiled and/or run under windows or linux machine (Ubuntu)





6 6 18
Teams Competitors Entries

Points This competition does not award standard ranking points

Tiers This competition does not count towards tiers

This is a Kaggle InClass competition provided free to academics. Find out about hosting your own InClass competition »

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