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

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

Note that Both features and labels are given for train.txt and dev.txt. Only 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:

- a. Detailed report including:
  - i. Initialisation of GMM
  - ii. GMM parameter tuning process (likelihood change, result on dev.txt etc.)
  - iii. Analysis and discussion
- 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)

Leaderboard >

1 ZhanghaoWu
2 TianzheWang
3 Smart Zhang
4 YanbinZhao
5 maomao777
6 ShuaiWang
7 -
8 -

Kernels >

There are no kernels yet.

Be the first

0 discussion topics >

There are no topics yet.

Start one

Launch
7 days ago

Close
12 days

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 »

Tags categorizationaccuracy extra small