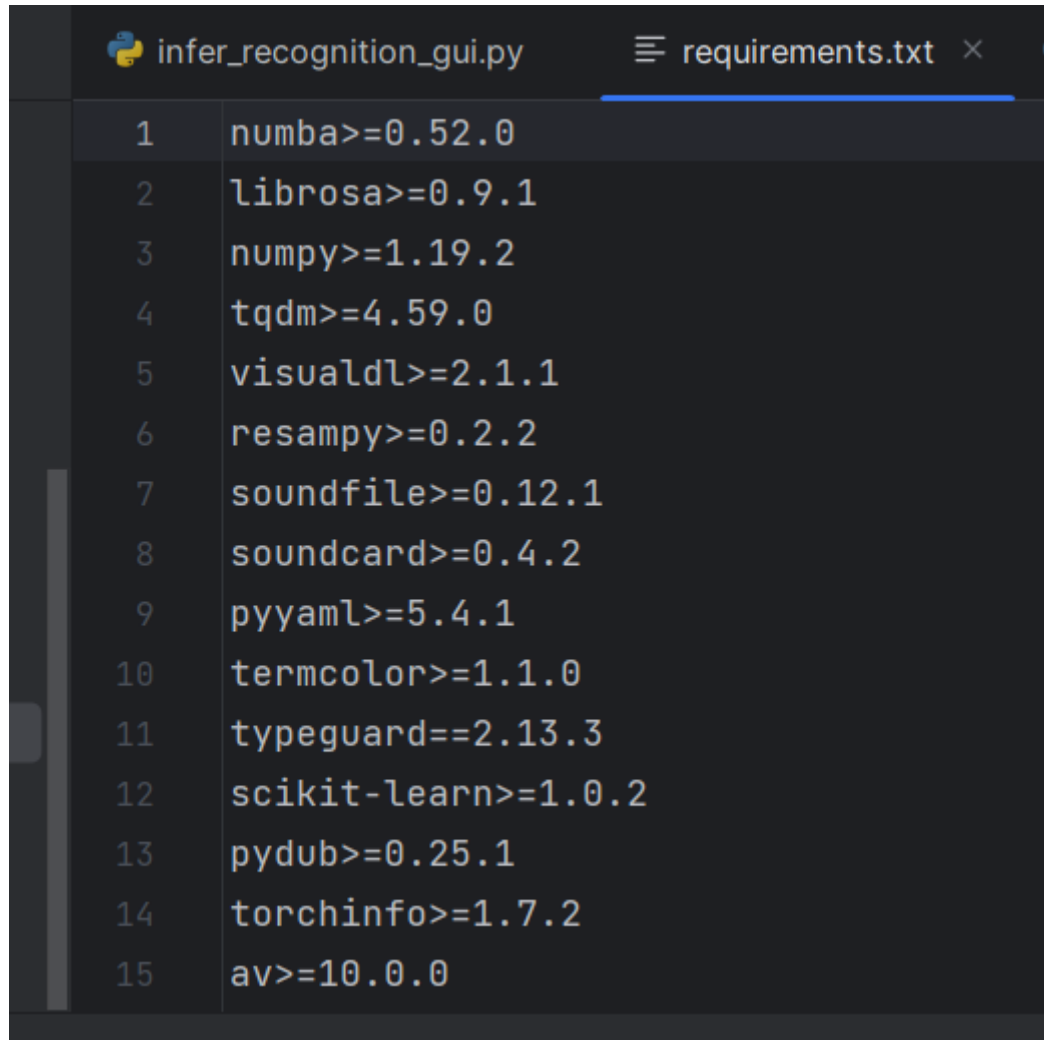


# README

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To run our program, you should do things as follows first:

1. Open the **code** folder in Pycharm.
2. Firstly, configure the Python interpreter for this project.
3. Download the packages from **requirements.txt** by typing `pip install -r requirements.txt` in the pycharm terminal.

A screenshot of a PyCharm editor window. The top bar shows two tabs: 'infer\_recognition\_gui.py' and 'requirements.txt'. The 'requirements.txt' tab is active and highlighted with a blue underline. The file content is displayed in a dark-themed editor with line numbers on the left. The requirements listed are: numba>=0.52.0, librosa>=0.9.1, numpy>=1.19.2, tqdm>=4.59.0, visualdl>=2.1.1, resampy>=0.2.2, soundfile>=0.12.1, soundcard>=0.4.2, pyyaml>=5.4.1, termcolor>=1.1.0, typeguard==2.13.3, scikit-learn>=1.0.2, pydub>=0.25.1, torchinfo>=1.7.2, and av>=10.0.0.

```
1 numba>=0.52.0
2 librosa>=0.9.1
3 numpy>=1.19.2
4 tqdm>=4.59.0
5 visualdl>=2.1.1
6 resampy>=0.2.2
7 soundfile>=0.12.1
8 soundcard>=0.4.2
9 pyyaml>=5.4.1
10 termcolor>=1.1.0
11 typeguard==2.13.3
12 scikit-learn>=1.0.2
13 pydub>=0.25.1
14 torchinfo>=1.7.2
15 av>=10.0.0
```

4. Then you need to download torch.

`pip3 install torch torchvision torchaudio`, in the pycharm terminal, If you get an error, you can install the torch or torchaudio packages inside pycharm,

**"file"->"setting"->"project"->"python interpreter"->"+"input "torch" and "torchaudio".**

torch	2.1.2	
torchaudio	2.1.2	2.1.2
torchinfo	1.8.0	1.8.0

5. Run `infer_recognition_gui.py`.

智慧声音识别锁

录音长度(s): 3

判断阈值: 0.5

请选择功能: 注册音频到声纹库 执行声纹识别 删除用户 实时识别

文件加锁 打开文件

结果展示

用户名称	文件信息
李达康	
沙瑞金	
zly	
wyx	
李奥	

```
01-03 22:20:52.567453 INFO ] utils:print_arguments:21 - train_conf:
01-03 22:20:52.567453 INFO ] utils:print_arguments:28 - enable_amp: False
01-03 22:20:52.567453 INFO ] utils:print_arguments:28 - log_interval: 100
01-03 22:20:52.567453 INFO ] utils:print_arguments:28 - max_epoch: 60
01-03 22:20:52.567453 INFO ] utils:print_arguments:28 - use_compile: False
01-03 22:20:52.567453 INFO ] utils:print_arguments:30 - use_model: CAMPPlus
01-03 22:20:52.567453 INFO ] utils:print_arguments:31 - -----
模型参数: models/CAMPPlus_Fbank/best_model/model.pth
```