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Objective:

Given assignment is designed to check your skills of deep learning frameworks compatibility, code quality, basic software engineering, understanding of problem and discipline.

In the given task **Goal is that with given text you need to extract all the labels** I.e., action that needs to be taken, action to be taken on which object and location where that object is present.

Data:

Following dataset contains a train_data.csv, valid_data.csv, having columns path of audio data, transcription of the audio data, action that needs to be taken, action to be taken on which object and location where that object is present. Below is the link to dataset on which you have to perform all your experiments. You just need to use text of corresponding audio and labels for those text.

Link: https://drive.google.com/file/d/1slGtHKHYTtiuC98yomV0hP3C85Q5V8sg/view?usp=sharing

Basic requirements that you need to submit on your GitHub repo:

1. yaml/json based config file for training (training command should be as simple as python train.py --config path_of_config)
2. Multi-gpu training (code should identify how many gpus are available and start training based on that)
3. CPU inferencing to accept single file/text as parameter (based on config and saved model, for single file), an evaluation script which accepts test.csv and outputs F1 score. Test.csv has same structure as validation file.
4. proper logging while training prefer tensor board, share the log files.
5. Complete documentation of the whole project from your research till final output score.