

report

August 31, 2021

1 VAD

1.1 Abstract

1.2 Introduction

1.3 Method

1.3.1 Dataset

1. Volume
 1. 1914 files
 1. 957 .wav audio
 2. 957 .json abels
 2. length: [TODO]
14 secs ?

1.3.2 Technical setup

```
/Users/steeve_laquitaine/Desktop/vad_ghost/src/vad/pipelines/data_eng/nodes.py:15: YAMLLoadWarning: calling yaml.load() without Loader=... is deprecated, as the default Loader is unsafe. Please read https://msg.pyyaml.org/load for full details.
```

```
config = yaml.load(conf)
```

```
2021-08-31 13:06:17,347 - kedro.framework.session.store - INFO - `read()` not implemented for `BaseSessionStore`. Assuming empty store.
```

```
2021-08-31 13:06:17,385 - kedro.framework.session.session - WARNING - Unable to git describe /Users/steeve_laquitaine/Desktop/vad_ghost
```

```
2021-08-31 13:06:17,399 - kedro.config.config - INFO - Config from path `/Users/steeve_laquitaine/Desktop/vad_ghost/conf/train` will override the following existing top-level config keys: disable_existing_loggers, formatters, handlers, loggers, root, version
```

```
2021-08-31 13:06:17,408 - root - INFO - ** Kedro project vad_ghost
```

```
2021-08-31 13:06:18,674 - kedro.versioning.journal - WARNING - Unable to git describe /Users/steeve_laquitaine/Desktop/vad_ghost
```

```
2021-08-31 13:06:18,694 - kedro.pipeline.node - INFO - Running node: read_audio: read_X(None) -> [audio]
```

```
2021-08-31 13:06:18,703 - kedro.io.data_catalog - INFO - Saving data to `audio` (MemoryDataSet)...
```

```
2021-08-31 13:06:18,706 - kedro.runner.sequential_runner - INFO - Completed 1
```

```

out of 3 tasks
2021-08-31 13:06:18,707 - kedro.io.data_catalog - INFO - Loading data from
`params:DATA_ENG` (MemoryDataSet)...
2021-08-31 13:06:18,712 - kedro.pipeline.node - INFO - Running node: load_label:
load_Y([params:DATA_ENG]) -> [label]

/Users/steeve_laquitaine/Desktop/vad_ghost/src/vad/pipelines/train/nodes.py:18:
YAMLLoadWarning: calling yaml.load() without Loader=... is deprecated, as the
default Loader is unsafe. Please read https://msg.pyyaml.org/load for full
details.
    config = yaml.load(conf)
/Applications/anaconda3/envs/test/lib/python3.6/site-
packages/kedro/framework/context/context.py:497: UserWarning: Credentials not
found in your Kedro project config.
No files found in ['/Users/steeve_laquitaine/Desktop/vad_ghost/conf/base',
'/Users/steeve_laquitaine/Desktop/vad_ghost/conf/train'] matching the glob
pattern(s): ['credentials*', 'credentials*/*', '**/credentials*']
    warn(f"Credentials not found in your Kedro project config.\n{str(exc)}")

2021-08-31 13:06:18,781 - kedro.io.data_catalog - INFO - Saving data to `label`
(MemoryDataSet)...
2021-08-31 13:06:18,782 - kedro.runner.sequential_runner - INFO - Completed 2
out of 3 tasks
2021-08-31 13:06:18,783 - kedro.io.data_catalog - INFO - Loading data from
`audio` (MemoryDataSet)...
2021-08-31 13:06:18,785 - kedro.io.data_catalog - INFO - Loading data from
`label` (MemoryDataSet)...
2021-08-31 13:06:18,786 - kedro.pipeline.node - INFO - Running node:
sync_audio_and_label: sync_audio_and_labels([audio,label]) -> [synced]
2021-08-31 13:06:18,806 - kedro.io.data_catalog - INFO - Saving data to `synced`
(MemoryDataSet)...
2021-08-31 13:06:18,810 - kedro.runner.sequential_runner - INFO - Completed 3
out of 3 tasks
2021-08-31 13:06:18,811 - kedro.runner.sequential_runner - INFO - Pipeline
execution completed successfully.
2021-08-31 13:06:18,812 - kedro.io.data_catalog - INFO - Loading data from
`synced` (MemoryDataSet)...

```

1.3.3 Model implementation

System description

Neural network architecture

Input

GRU layer

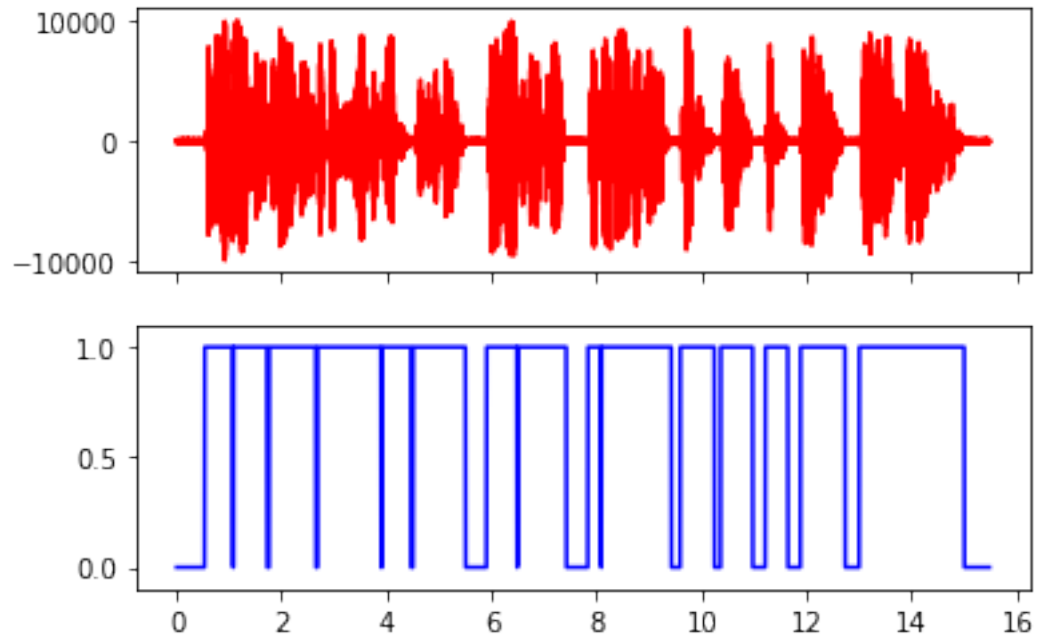
Dense layer

Batch inference

1.4 Experiments

1.4.1 Experimental setup

1.5 Results



1.6 Conclusion

1.7 Discussion

1.8 References