keras$_{g}tar$Documentation

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keras_gtar is an in-development library for saving and restoring keras models inside libgetar files. By using a trajectory-based format, we can save multiple versions of a model's weights.

CHAPTER 1

Installation

Install *keras_gtar* from source on github:

```
pip install git+https://github.com/klarh/keras_gtar.git#egg=keras_gtar
```

CHAPTER 2

API Documentation

class keras_gtar.**Trajectory**(*filename*, *mode='r'*, *group=None*)

Interface to save and load models from a GTAR trajectory

Parameters

- **filename** – File to save or load from
- **mode** – File open mode: 'r' (read-only), 'w' (overwrite), or 'a' (append)
- **group** – GTAR group prefix to use to organize multiple sub-trajectories within the same GTAR file, if given

get_weights(*frame=-1*)

Returns a list of weight arrays for a model stored at the given frame index

Parameters **frame** – integer index of the step to load. Can be negative to count from the end.

load(*frame=-1*, *extra_classes={}*)

Loads a model stored at the given frame index

Parameters

- **frame** – integer index of the step to load. Can be negative to count from the end.
- **extra_classes** – Dictionary of additional (name: Class) values to use when initializing model.

save(*model*, *frame=None*, *only_weights=False*)

Save a model description and/or current state

Parameters

- **frame** – Frame index (string) to save as. If not given, do not save weights.
- **only_weights** – If True, only save the current model weights, not the model architecture.

save_model(*model*)

Save (only) the current model architecture.

Parameters **model** – Keras Model object to save

save_weights(*model*, *frame*)
Save (only) the current model weights.

Parameters

- **model** – Keras Model object containing weights to save
- **frame** – Frame index (string) to save as

keras_gtar.**GTARLogger**

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