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# **keras<sub>g</sub>***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

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## Installation

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Install *keras\_gtar* from source on github:

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





**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*)

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.

**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<sub>gtar</sub>.GTARLogger

## CHAPTER 3

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### Indices and tables

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