K-CHAIN Documentation

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CONTENTS:

This is something I want to say that is not in the docstring.

MODULE: KCHAIN

This module consists of kChainModel class to create, fit, append, and update K-CHAIN models in TensorFlow

class kChain.**kChainModel**(*debug=False*)

> **__init__**(*debug=False*)
> Initialize object of type K-CHAIN model.
>
>> **Parameters debug** ([*bool*]) – various print statements throughout the code execution will be executed to help in debugging.
>
> **build**(*inputVar*, *outputVar*, *mdlName*, *dataLoc=None*, *eqMdl=None*)
> Build a K-CHAIN model using input and output variables from the KG.
>
>> **Parameters**
>>
>> - **inputVar** (*Pandas Series*) – list of input variables (as in dataset)
>>
>> - **outputVar** (*Pandas Series*) – list of output variables (as in dataset)
>>
>> - **mdlName** (*string*) – Name to assign to the final model (E.g.: 'Newtons2ndLaw')
>>
>> - **dataLoc** (*string*) – Location of dataset as .csv with Row 1 - Variables names, Row 2 - Units, Row 3 onwards - data (default = None)
>>
>> - **eqMdl** (*string*) –
>>
>> **Returns** Description of return value
>
> **fitModel**(*dataset*, *inputVar*, *outputVar*, *mdlName*)
> Fit a K-CHAIN model using input and output variables from the KG and the corresponding dataset.
>
>> **Parameters**
>>
>> - **dataset** (*Pandas Dataframe*) – dataset with inputs and outputs
>>
>> - **inputVar** (*Pandas Series*) – list of input variables (as in dataset)
>>
>> - **outputVar** (*Pandas Series*) – list of output variables (as in dataset)
>>
>> - **mdlName** (*string*) – Name to assign to the final model (E.g.: 'Newtons2ndLaw')
>>
>> **Returns** Description of return value
>
> **getDataset**(*dataLoc=None*)
> Create Pandas DataFrame from identified csv.
>
>> **Parameters dataLoc** (*string*) – Location of dataset as .csv with Row 1 - Variables names, Row 2 - Units, Row 3 onwards - data (default = None)
>>
>> **Returns** DataFrame with values read from csv file

Return type df (Pandas DataFrame)

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