**DiCE** functions and parameters

**dice\_ml.Data:**

**PublicData:**

:param **dataframe**: The train dataframe used by explainer method.

:param **continuous\_features:** List of names of continuous features. The remaining features are categorical features.

:param **outcome\_name:** Outcome feature name.

:param **permitted\_range** (optional): Dictionary with feature names as keys and permitted range in list as values. Defaults to the range inferred from training data.

:param **continuous\_features\_precision** (optional): Dictionary with feature names as keys and precisions as values.

:param **data\_name** (optional): Dataset name

**PrivateData:**

(Currently available for Tensorflow 2.0 models only) \*

:param **features**: Dictionary or OrderedDict with feature names as keys and range in int/float (for continuous features) or categories in string (for categorical features) as values. For python version <=3.6, should provide only an OrderedDict.

:param **outcome\_name**: Outcome feature name.

:param **type\_and\_precision** (optional): Dictionary with continuous feature names as keys. If the feature is of type int, just string 'int' should be provided, if the feature is of type float, a list of type and precision should be provided. For instance, type\_and\_precision: {cont\_f1: 'int', cont\_f2: ['float', 2]} for continuous features cont\_f1 and cont\_f2 of type int and float (and precision up to 2 decimal places) respectively. Default value is None and all features are treated as int.

:param **mad** (optional): Dictionary with feature names as keys and corresponding Median Absolute Deviations (MAD) as values. Default MAD value is 1 for all features.

:param **data\_name** (optional): Dataset name

**dice\_ml.Model**

:param **model**: trained ML model.

:param **model\_path**: path to trained ML model.

:param **backend**: "TF1" ("TF2") for TensorFLow 1.0 (2.0), "PYT" for PyTorch implementations, "sklearn" for Scikit-Learn implementations.

:param **func**: function transformation required for ML model. If func is None, then func will be the identity function.

:param **kw\_args**: Dictionary of additional keyword arguments to pass to func. DiCE's data\_interface is appended to the dictionary of kw\_args, by default.

**dice\_ml.Dice**

:param **data\_interface**: (dice\_ml.Data) interface to access data related params.

:param **model\_interface**: (dice\_ml.Model) interface to access the output or gradients of a trained ML model.

:param **method**: Name of the method to use for generating counterfactuals. Supported values are ““random”, “genetic”, “kdtrees”. The k-d trees method can only be used with a the public data interface.