Handle data

`manip` is a class to unify various diagnostics methods and provide a consistent interface for diagnostics.

Perform one-hot encoding on specified columns

Args:

- *cols* (str or list): Columns to encode. Use 'all' for all object-type columns

Returns:

- *pd.DataFrame*: DataFrame with encoded columns

```
bi.dist.OHE(
self,
cols='all',
)
```

Load data from CSV file

Args:

- *path* (str): Path to the CSV file
- – **kwargs*: Additional arguments for pd.read_csv

Returns:

pd.DataFrame: Loaded dataframe

```
bi.dist.data(
self,
path,
**kwargs,
)
```

Prepare data for model input in JAX format

Args:

- *cols* (list): List of columns to include in model data

Returns:

- *dict*: JAX formatted dictionary

```
bi.dist.data_to_model(
self,
cols,
)
```

Create index encoding for categorical columns

Args:

- *cols* (str or list): Columns to encode. Use 'all' for all object-type columns

Returns:

- *pd.DataFrame*: DataFrame with encoded columns

```
bi.dist.index(
self,
cols='all',
)
```

Convert pandas dataframe to JAX compatible format for a model

Args:

- *model*: JAX model to prepare data for
- *bit* (str): Bit precision for numbers (default: 32)

Returns:

- *dict*: JAX formatted dictionary

```
bi.dist.pd_to_jax(
self,
model,
bit=None,
)
```

Standardize specified columns

Args:

- *data* (str or list): Columns to standardize. Use 'all' for all columns

Returns:

- *pd.DataFrame*: Standardized dataframe

```
bi.dist.scale(
self,
data='all',
)
```

JAX-jitted function to scale/standardize a single variable

```
bi.dist.scale_var(
self,
x,
)
```

Convert specified columns to float type

Args:

- *cols* (str or list): Columns to convert. Use 'all' for all columns
- *type* (str): Float type to convert to (default: float32)

Returns:

- *pd.DataFrame*: Converted dataframe

```
bi.dist.to_float(
self,
cols='all',
type='float32',
)
```

Convert specified columns to integer type

Args:

- *cols* (str or list): Columns to convert. Use 'all' for all columns
- *type* (str): Integer type to convert to (default: int32)

Returns:

- *pd.DataFrame*: Converted dataframe

```
bi.dist.to_int(
self,
cols='all',
type='int32',
)
```
