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## **Data Analysis with Python**

## **Cheat Sheet: Data Wrangling**

```
Package/Method Description
                                                                                                            Code Example
                   Replace the
                   missing
                                    1. 1
2. 2
                   values of the
                   data set
Replace missing
                   attribute with
                                    1. MostFrequentEntry = df['attribute_name'].value_counts().idxmax()
data with
                   the mode
                                    2. df['attribute_name'].replace(np.nan,MostFrequentEntry,>df['attribute_name'].replace(np.nan,MostFrequentEntry,
frequency
                   common
                   occurring
                                   Copied!
                   entry in the
                   column.
                   Replace the
                   missing
                   values of the
                   data set
Replace missing
                                    1. AverageValue=df['attribute_name'].astype(<data_type>).mean(axis=0)
                   attribute with
data with mean
                                    2. df['attribute_name'].replace(np.nan, AverageValue, inplace=True)
                   the mean of
                   all the
                                   Copied!
                   entries in the
                   column.
                                    1. 1
                   Fix the data
                   types of the
                                    1. df[['attribute1_name', 'attribute2_name', ...]] =
2. df[['attribute1_name', 'attribute2_name', ...]].astype('data_type')
Fix the data types columns in
                   the
                                    3. #data_type is int, float, char, etc.
                   dataframe.
                                   Copied!
                   Normalize
                   the data in a
                   column such
                                    1. df['attribute_name']
Data
                   that the
                                        df['attribute_name']/df['attribute_name'].max()
Normalization
                   values are
                   restricted
                                   Copied!
                   between 0
                   and 1.
                                    1. 1
2. 2
3. 3
                                    4.
                                        4
                                    5.
6.
                   Create bins
                   of data for
                                    1. bins = np.linspace(min(df['attribute_name']),
Binning
                   better
                                    1. bins = inp.tinspace(min(vit attribute_name ))
2. max(df['attribute_name'],n)
3. # n is the number of bins needed
4. GroupNames = ['Group1','Group2','Group3,...]
5. df['binned_attribute_name'] =
                   analysis and
                   visualization.
                                    6. pd.cut(df['attribute_name'], bins, labels=GroupNames, include_lowest=True)
                                   Copied!
                   Change the
                                    1. 1
                   label name
Change column
                                    1. df.rename(columns={'old_name':\'new_name'}, inplace=True)
                   of a
name
                   dataframe
                                   Copied!
                   column.
                                    1. 1
2. 2
                   Create
                   indicator
Indicator
                                    1. dummy_variable = pd.get_dummies(df['attribute_name'])
2. df = pd.concat([df, dummy_variable],axis = 1)
                   variables for
Variables
                   categorical
                   data.
                                   Copied!
```



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