Cheatography

# Python pd.Dataframe Cheat Sheet

by isantabarbara (isantabarbara) via cheatography.com/55251/cs/15397/

## For sklearn

```
reg = RandomForestRegressor()
X = df_rnd[features].as_matrix()
y = df_rnd['recovery'].values
reg.fit(X, y)
```

## Deletes

DEL df['col']

df = df.drop('col', axis=1)

## Hotchpotch

| | |
|---|---|
| pd.cut | numeric to category |
| pd.groupby | |
| index | |
| df.pivot | |
| df.get_dummy | |
| apply cols rows.. | |

https://pandas.pydata.org/pandas-docs/stable/reshaping.html

## Subsetting

surveys_df[(surveys_df.year >= 1980) & (surveys_df.year <= 1985)]

surveys_df[pd.isnull(surveys_df).any(axis=1)]

surveys_df[surveys_df['species_id'].isin([listGoesHere])]

## Indexing and Selecting Data

Series and DataFrame

Python and NumPy indexing operators [] and attribute operator . provide quick and easy access to pandas data structures

.loc label or boolean array

.iloc integer position or boolean array

.loc, .iloc, and also [] indexing can accept a callable as indexer

Series s.loc[indexer]

DataFrame df.loc[row_indexer,column_indexer]

X_neg[:, df_rnd.columns.get_loc('medication')] = 0

.copy()

.drop('recovery', axis=1)

.apply(lambda x: other_defined_fun(*x), axis=1)

Columns: df.iloc[:,0:2]

Rows: df.iloc[5:100,:]

## Index

| | |
|---|---|
| Index | The base pandas Index type |
| | Immutable ndarray. Ordered, sliceable set. |
| MultiIndex | A multi-level, or hierarchical, index object |
| | ~ Array of tuples where each tuple is unique |

https://pandas.pydata.org/pandas-docs/stable/advanced.html

## Slice Notation

| | |
|---|---|
| lst[i:j] | i to j-1 |
| lst[i:] | i to end |
| lst[:j] | start to j-1 |
| lst[:] | All |
| lst[i:j:step] | i to j-1 by step |
| df[i:j] \| df.iloc[i:j,:] | Row i to j-1 |
| df.iloc[0:3, 1:4] | iloc[row slicing, col slicing] |
| df.iloc[row, col] | Specific element |
| df.loc[lbl1:lbl2,:] | Also with labels |


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