Cheatography

Pandas Cheat Sheet

by bpilat via cheatography.com/201559/cs/42672/

Create Objects

Creating a NumPy array

```
arr = np.arr ay([1, 2, 3, 4, 5])
```

Creating a Pandas DataFrame

```
df = pd.Dat aFr ame ({'A': [1, 2, 3], 'B': [4, 5, 6
]})
```

Indexing and Selection:

Indexing and slicing NumPy array

`arr[0]` *Access element at index 0*

`arr[2:4]` *Slice elements from index 2 to 4*

Indexing and slicing Pandas DataFrame

`df['A']` *Access column 'A'*

`df.loc[0]` *Access row at label 0*

`df.iloc[0]` *Access row at index 0*

Operations

Arithmetic operations with NumPy arrays

`np.sum (arr)` *Sum of all elements*

`np.mea n(arr)` *Mean of all elements*

Arithmetic operations with Pandas DataFrame

`df.sum()` *Sum of all elements (column-wise)*

`df.mean()` *Mean of all elements (column-wise)*

Missing Data Handling

Numpy

NumPy does not have built-in support for missing data

Handling missing data in Pandas DataFrame

`df.isn ull()` *Detect missing values*

`df.dro pna()` *Drop rows with missing values*

`df.fil lna (value)` *Fill missing values with specified value*

Grouping

Grouping data in a Pandas DataFrame and calculates the Mean value for each group

```
df.gro upb y(' col umn _na me' ).m ean()
```

Grouping data in a Pandas DataFrame and calculates the Sum of values for each group

```
df.gro upb y(' col umn _na me' ).sum()
```

Aggregation

Aggregating data in a Pandas DataFrame

```
df.gro upb y(' col umn _na me' ).a gg( {'c olu mn_ t
gat e_f unc tion'})
```

Example: Sum of 'values' column for each 'category'

```
df.gro upb y(' cat ego ry' ).a gg( {'v alues': 'sum'
```

Filtering

Filtering data in a Pandas DataFrame

```
df[df[ 'co lum n_n ame'] > threshold]
```

Example: Filtering rows where 'values' column is greater than 10

```
df[df[ 'va lues'] > 10]
```

Indexing

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