Pandas drop

SHARP SIGHT

What you'll learn

- How to use the Pandas `drop` method

- How to "drop" variables from a DataFrame
  - i.e., delete variables from a DataFrame

Pandas drop overview

The Pandas drop method "drops" variables from a dataframe

```
supercars.drop(columns = 'engine_size')
```

model	make	horsepower	engine_size
Veyron	Bugatti	1,184	487.7
Agera	Koenigsegg	1,124	307
Aventador	Lamborghini	710	396.5
Mustang Shelby	Ford	662	354.6
559 GTO	Ferrari	661	366
911	Porsche	611	219.6

Note: Here, `supercars` is an "abbreviated" version of the actual data

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Pandas drop syntax

Syntax: pandas drop

The name of the DataFrame you want to operate on

The name of the method (called with "dot" syntax)

```
myDataFrame.drop(columns = 'column')
```

The `columns` parameter

The name of the columns you want to remove (enclosed in quotes)

Syntax: drop multiple columns

```
myDataFrame.drop(columns = ['column1','column2',…])
```

You can specify multiple columns
by listing them inside of a list

Parameters of Pandas drop

The parameters of Pandas drop

Parameter	What it does
`columns`	Specifies which columns to delete
`index`	Specifies which rows to delete (you can use `drop` to delete row too)
`inplace`	Modifies the DataFrame directly, instead of producing a new DataFrame as an output

The output of Pandas drop

- By default, the drop method produces a new DataFrame
  - new DataFrame with columns removed

- If you set `inplace = True`, `drop` will directly modify the DataFrame you're operating on
  - will *not* produce a new DataFrame

Recap

Recap of what we learned

- You can delete DataFrame columns with the `drop` method
  - drop single column
  - drop multiple columns

- You can also drop rows (but we aren't covering that here)

- If you set `inplace = True`, drop will directly modify the DataFrame

- **Next Steps**: Watch the code walkthrough video for step-by-step examples of Pandas drop