







**H2O Data Munging**

- Data Transfer
- H2OFrame Attributes
- Data Column Types
- Row & Columns Selection
- Categorical Data Operations
- Filters & Logical Operations
- Missing Data Handling

- Summary & Aggregation
- Numeric Data Summaries
- Numeric Data Transformations
- Date/Time Manipulations
- String Munging
- Joins Between Two H2OFrames
- Histogram of Numeric Columns

# Data Transfer between Python and H2O

## `h2o.H2OFrame`

- Turns python pandas frame into an H2OFrame
- Saves dataframe to CSV and then performs `h2o.upload()` to H2O cluster

## `h2o.as_list` OR `h2o_frame.as_data_frame`

- Turns H2OFrame to lists of list or pandas frame
- Downloads the H2OFrame locally and will parse with pandas if `use_pandas` is set to True

**Note:** Be mindful of `h2o.as_list`, it is difficult to fit a large H2OFrame into a Python session

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