

MACHINE LEARNING ALGORITHMS | AAIM

PRACTICE EXERCISES 1.2

GOALS:

- ML Datasets
- Datasets preparation
- Jupyter Notebooks

Prepare a new jupyter notebook to develop all necessary steps for supporting this exercise

1) Python and Data (II)

- Read csv file
- Export to csv file
- Create a series of data
- Create a dataframe from a csv
- Create a synthetic dataframe using Faker module
- Analyse the dataframe: axes, columns, number of registers, etc.

2) DataSets Manipulation:

- a) Consider the attached dataset about “car sales”. Load it to your environment!
- b) Check its shape! Create manually a new dataframe with similar shape.
- c) Check its data types and its basic statistics.
- d) Show graphically the number of kilometres for each car mark.
- e) Check if there is null values.
- f) Correct the null values with default values.
- g) Create a new feature corresponding to the cost of the car, but in Euros. Chek the actual dollars rate.
- h) Expand the dataset with 1000 more records.
- i) Export the resulting datatset to a new file, without indexes.

Enjoy

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