Pandas + Matplotlib

Pandas ⇒ notebook explaining lots of f^n
+
titanic data example

Numpy ⇒ 1 assignment + 1notebook which helps
you in understanding
f^n

Matplotlib ⇒ Lib explaining a lots of stuff.

Pandas ⇒   3hours
⇓ 10x
30 hours

english ⟶ ⌐→ practice
⌊→ Read / other people speaking

⇓

practice ⇒ dataset
⇒ see other people code.

Loc

iloc
↓
index

↓
we used
indexes

row-1

0th row

Counts

0   1   2   3
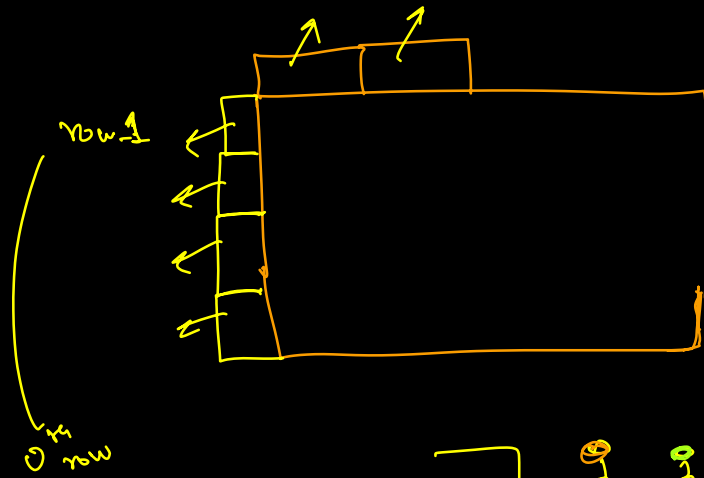
Methods in Pandas

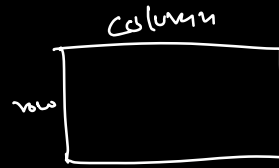append()

apply()

count()

describe()

head()

transpose()

drop_duplicate()

sum()

column

row

to_excel
to json

If result for some action on inbuilt method

is shown, no changes to original df

else if   not shown , changes are done

in df.

Pandas Series

Series $\Rightarrow$ 1D   homogenous   size is fixed

| 15 | 20 | 30 | . | 60 | Series

Each Column in a df is actually a Series

pd. Series (data , index)

Series is One Dimensional array to hold different types of values.
pandas.Series (data, index, dtype, copy)

➢ data: It can be any list, dictionary, or scalar value.
➢ index: The value of the index should be unique and
    hashable. It must be of the same length as data. If we do not
    pass any index, default np.arrange(n) will be used.
➢ dtype: It refers to the data type of series.
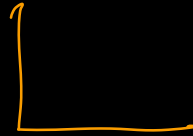➢ copy: It is used for copying the data.

Motplotlib

Plotting Library

"A picture is worth a thousand words"

numpy
Pandas }   300%+

⇒ mathplotlib is a visualization library in python for 2-D plots

⇒ built on top of numpy

⇒ lots of graphs/plots   line, bar, histogram