

# EDA 4 Learning Data

Exploratory Data Analysis, a gentle introduction



## **Data Collection**

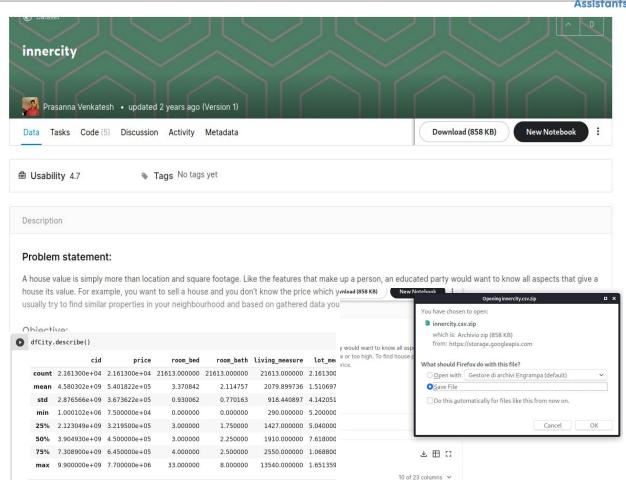
#### https://www.kaggle.com/prasy46/innercity

Trading Assistants

- Download Dataset
  - innercity.csv.zip

#### Dataset

- Innercity
  - Code
  - Discussion
  - Activity
  - Metadata



## **Statistica Descrittiva**

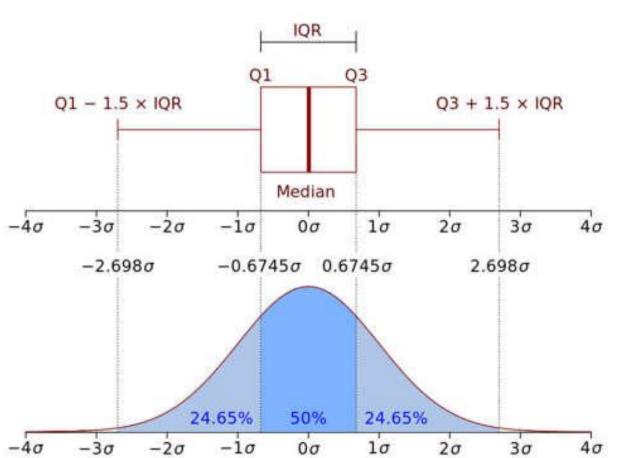


## • Misure di posizione

- Moda
- Mediana
- Quantili, percentili, ...

#### Moda

- max absolute or relative frequency
- Mediana
  - o central position
- Quantili, Percentili





## Slice indexes

- rules 0
  - direct
  - reverse
  - steps

#### Lambda Func

- one-line expression
  - keyword
  - argument
  - assignment

## **Outliers**

- Quantile & Boxplot
  - Q1 low limit
  - Q3 high limit
- **Linear Regression**

s = 'HelloWorld'

$$s1 = s[8:1:-1]$$

0

Start	to	End	-

->

Н

0

9

H

0

9

8

е

3

6

4 5

5

W

6 3

0

0

8

D

9

D

Output: IroWoll <- End to Start

$$s2 = s[8:1:-2]$$

0

->

8

е

4

3

6

5

W

6

0

8 9 0

Journal Dev Output: lool <- End to Start

s3 = s[-4:-2]

5

4

8

-8

е

2

3

0 4

5

W

0

D 8

0

Output: or

**Negative Index ->** 

Start to End ->

9

Н

6

6

3

7

2

-1

1

<- End to Start



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#### Lambda Func

- o one-line expression
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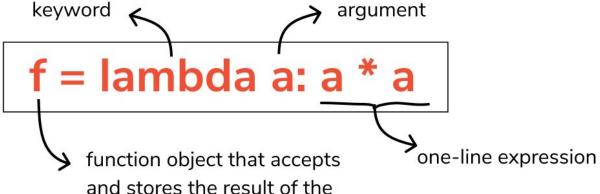
#### Outliers

- Quantile & Boxplot
  - Q1 low limit
  - Q3 high limit
- Linear Regression

```
def square(a):
return a * a
```

#main() function
res = square(6)
print(res)

expression



## **Linear Regression**



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