osloblooss s.loc[o] > value at index label o s.iloc[o] > value at index o → S. loc[0:1] → returns o and law of 1 5. iloc (0:1) -> returns only 0, exclusive of) What if you sort the Series → S. Sort\_index() -) They will return some results. Ownia Jig Data Visualization > Delivers data with efficiency, clarity and effectiveness → coun identify patterns planglobel ( This is y Arist) P - correlations - Trends over hime - Frequency
Analyze large datasets tasets and have data driven decision Plt & xlubel (! Tenure!) management: ('philided ove ') todaly alg Matplotlib - import matplotlib. pyplot as plt 'over 'toposous' = va eladol e → Histograms: Measures frequency of data → Area /Barchart: Represent no. of observations for different categories

→ Piecharts: Represent percentage data by each category. Data = { 'Year': [1920, 1930, 1940, 1950, 1960, 1970, 1980, 1990, 2000, 2010, 2020], 'Exchange Rate': [65, 69, 71, 64, 62, 59, 72, 71, 75, 78, 817 } df = pd Data frame (Data, columns = ['year', 'Exchange Rale']) Obar 3001 -> df. plot(x='YEar', y='Exchang Rake', kind='bar') → plt. scatter (df['Year'], df['Exchange Rale']) @ Line
plt. show() @ Line 3 Line G barh > Data = & 'Tasks' :[100,500,30074 | 300 9 day of and the modes of = pd. Data Frame (Data, columns = ['Tasks'], index = ['Pending complete Ongoing 1) df. plot-pie (y= 'Tasks', fig size = (5,5))

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Plf. Show ()

06/06/2025

- -> pd. column name. value counts(): Returns the count of values in Each of ['Gender']. value counts() category of the column specified.
- → Plt. bour (chum\_df ['Gender'], churn\_df ['Age']. maxc), color = 'Cyan',

  Plt. title ('Gender us Age', fontdict = { fortsize': 20, 'color': 'Green's)

  Plt. show() plt. show()
- > Plt. scatter (Churn-df ['Agei], Churn-df ['tenwei]) Plt. title ('Seather plot') Scatter plot Plt. xlabel ('This is X Axis') con identify patterns plt. ylabel ('This is Y Axis') - correlations Plt. show()
- -> plt. hist (churn-df ['Tenure'], bins = 30) plt. Neb xlabel ('Tenure') Plt. Ylabel (' probability') and tole to Market Mat plot With plt. show()
- > labels-ex = 'Javascript', 'Java', Python', Raya distribution plt plot (convert) Sizes = [15,30,45,10] explode - labels = (0,0.5,0,0) - Area /forchart Represent no fig1, ax1 = plt. subplots()

Plecharts, Represent percenta ax1. pie ( sizes, explode = explole\_labels, labels = labels\_ex, shadow=Tre,= axi. axis ('equal')

Plh. chan (1) of a paratisme (Date Columns = [ Year 1810) works all )

07/06/2025 2010 = (1204 = pung light by brought = h (1791) = x )40/4 yp → df ['Tenure']. plot. box() → box plot → Boxplot has 5 important measures Q1, Q3, Minimum, Maximum, Median it Tries to make easy things easy and hard things possible a

Pit. Show ()

Import seaborn as sno and and another so डेर्स. Plat-bie (में - Tabes , स्वेडास = (5,5)