

Numpy - खुप महत्वाची Library आहे

- Python Science library आहे.
- Python library आहे ती provide करते multidimensional array object
- large calculation खुप फास्ट होते.
- Numpy मध्ये खुप Resources आहे
- Numpy हे perfect tool आहे scientific computing
- यामध्ये fast calculation होत on array, including mathematical, logical, shape manipulation, sorting, selection, 2/0

Pandas - खुप popular library आहे

- pandas library provide करत support for data structure
- pandas Community used for data wrangling and data manipulation purposes
- pandas used होते for creating heterogeneous, two-dimensional data object.

matplotlib - हि एक library आहे

- हि एक low level graph plotting library आहे python ची
- हे diff visualization report create करत.
- like- line plots, scatter plot, histograms, bar charts, boxplot
- हि library 3 dimensional plotting ला पण support करते

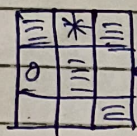




Seaborn

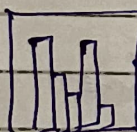
- data explore करना आसानी से समझने योग्य बनाने के लिए एक python data visualization library based on matplotlib.

- It provide a high level interface for drawing attractive and informative statistical graphics.
- Seaborn library making statistical graphics in python.
- Seaborn library matplotlib पर आधारित है।
- data



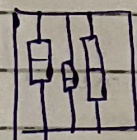
heatmap

- एक popular data visualization technique है।  
- जहाँ color का उपयोग करके value point के साथ जानना आसान है। user को बड़े data set को find करना आसान है।



histplot

- एक graphical representation of the distribution of data.



boxplot

- boxplot का use आपका करना distribution of numeric data value में compare multiple group आसान है।

- boxplot बताता है distributed the data in data set.
- 3 part में divide होता है।
- graph minimum, maximum, median.
- first quartile and third quartile.

distplot or distribution plot type of plot जो distribution of data (KDE)

- It is similar to histogram - also shows kernel density estimate.
- distplot or distribution plot, depicts the variation of data distribution.
- Seaborn distplot represent the overall distribution of continuous data variables.
- matplotlib model is used.



barplot - Bar plot or bar chart meaning, barplot type of data visualization to represent data in rectangular bars, matplotlib library python is widely used to create barplot.

Boxplot - Jointplot visualization tool is used to explore the relationship between two variables.  
- draw plot of two variables with bivariate and univariate graphs

jointplot -

Violinplot - Combination of boxplot and histograms.  
- It portrays the distribution, median, interquartile range of data.

Stripplot - very simple to understand.  
- It is basically a scatter plot that differentiates different categories.

Scatterplot - type of scatter plot that is used to visualize the distribution of data points in data set.



\* nltk - Natural language toolkit. - it's go-to - API for NLP with python.

- It is really powerful tool to process text data for further analysis like with ML models for instance.
- It helps convert text into numbers.

\* Regex :- Regular expression, also known as regex in python.  
- used to match strings of text such as particular characters, words or patterns or characters.

\* Confusion matrix :- (or error matrix) is a visualization method for classifier algorithm result.  
- tabular representation of performance classification model.  
- It compares actual target value with those predicted by the model.

\*  $x_{train}$  and  $y_{train}$  - are used for training and fitting model.

\*  $x_{test}$  and  $y_{test}$  - used for testing the model i.e. it predicting right output / labels.

\* loc is typically used for label indexing and can access multiple columns while.

\* iloc - is used for integer indexing first.



sepal and petal - four features in this dataset -

- set popular dataset -

- the other two features are sepal length and petal width

three Iris species - setosa, Versicolor, and virginica

# Quora

Here are some differences and similarities between `loc` and `iloc` :

	<code>loc</code>	<code>iloc</code>
A value	A single label or Integer e.g. <code>loc[A]</code> or <code>loc[1]</code>	A single Integer e.g. <code>iloc[1]</code>
A list	A list of labels e.g. <code>loc[[A, B]]</code>	A list of Integers e.g. <code>iloc[[1,2,3]]</code>
Slicing	e.g. <code>loc[A:B]</code> , A and B are Included	e.g. <code>iloc[n:m]</code> , n is included, m is excluded
Conditions	A bool Series or list	A bool list
Callable function	<code>loc[lambda x: x[2]]</code>	<code>iloc[lambda x: x[2]]</code>

source - pandas , medium.com



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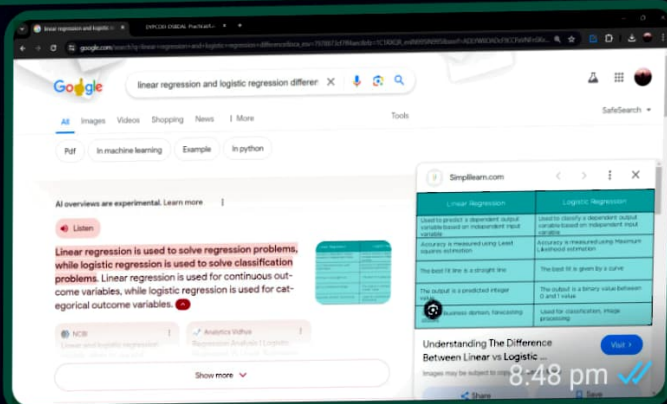


Anu2 (You)

Message yourself

-he-needs-money-xhdtupB

9:10 am ✓✓



df mhnje apn jithe apli file read krto ti read keleli file tithe store krto

sns mhnje simple statistical graph dakhvnya sathi use hoot

label encoder mhnje apn convert krto labels la numerical madhe

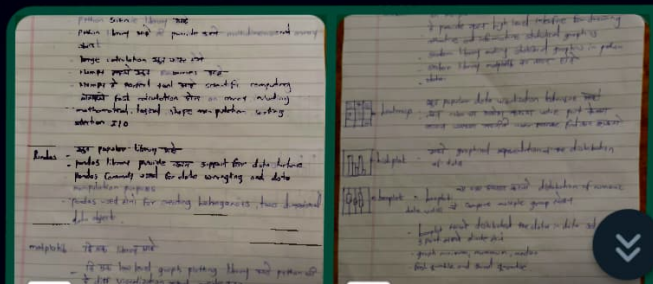
mode mhnje dataset made ji jasst vela value ali ti

preprocessing mhnje simple clean krto data analysis kivha train kraychya adhi

predict mhnje predict krto ki he ki te eg email spam ahe ka nahi

linear regression he ek relation ahe independent ani dependent value ch

8:53 pm ✓✓



Message

