

AI- powered Nutrition Analyzer for Fitness Enthusiasts

TEAM MEMBERS

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WEEK-5

On September 8th we had our Day 3 Session, in this session they explained about the website like where to ask questions, how to check project details, etc. and concepts about data frames and a hands-on session on colab in the concepts Pandas and how to do visualization using pandas and some concepts about matplotlib.

We completed a quiz on September 8th

Assigned Task :Prepared Empathy Map Canvas and captured the user Pains & Gains.



IN WEEK THREE WE HAVE LEARNED

- 1.Pandas
2. Data visualization
3. Loading data set in collab
matplotlib plotting

AI-B4-4M6E(Morning Session)-Day-3

Getting started User Guide API reference Development Release notes

1.4.4

Search the docs ...

pandas documentation


Date: Aug 31, 2022 Version: 1.4.4

Download documentation: [PDF Version](#) | [Zipped HTML](#)

Previous versions: Documentation of previous pandas versions is available at pandas.pydata.org.


Useful links: [Binary Installers](#) | [Source Repository](#) | [Issues & Ideas](#) | [Q&A Support](#) | [Mailing List](#)

pandas is an open source, BSD-licensed library providing high-performance, easy-to-use data structures and data analysis tools for the Python programming language.



Getting started

New to pandas? Check out the getting started guides. They contain an introduction to pandas' main concepts and links to additional tutorials.



User guide

The user guide provides in-depth information on the key concepts of pandas with useful background information and explanation.

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1.4.4

Search the docs ...

10 minutes to pandas

Intro to data structures

Essential basic functionality

IO tools (text, CSV, HDF5, ...)

Indexing and selecting data

MultiIndex / advanced indexing

Merge, join, concatenate and compare

Reshaping and pivot tables

Working with text data

Working with missing data

Duplicate Labels

Categorical data

Nullable integer data type

Nullable Boolean data type

Chart Visualization

Table Visualization

Computational tools

Group by: split-apply-combine

Windowing Operations

- 10 minutes to pandas
 - Object creation
 - Viewing data
 - Selection
 - Missing data
 - Operations
 - Merge
 - Grouping
 - Reshaping
 - Time series
 - Categoricals
 - Plotting
 - Getting data in/out
 - Gotchas
- Intro to data structures
 - Series
 - DataFrame
- Essential basic functionality
 - Head and tail
 - Attributes and underlying data
 - Accelerated operations
 - Flexible binary operations
 - Descriptive statistics
 - Function application
 - Reindexing and altering labels
 - Iteration
 - .dt accessor

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https://colab.research.google.com/drive/17JeRwv159IKJ_iktz7MVxSVhweVbnkIV#scrollTo=sww56zTY-WM

Pandas&Viz

File Edit View Insert Runtime Tools Help All changes saved

Files

- sample_data
- File_Example.csv
- autos.csv

+ Code + Text

```
[97] dataset = pd.read_csv("File_Example.csv")
```

dataset

Unnamed: 0	0
0	a
1	a
2	a
3	b
4	c
5	d

0s completed at 10:08 AM

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https://colab.research.google.com/drive/17JeRwv159IKJ_iktz7MVxSVhweVbnkIV#scrollTo=rk6uK3NFh2A

Pandas&Viz

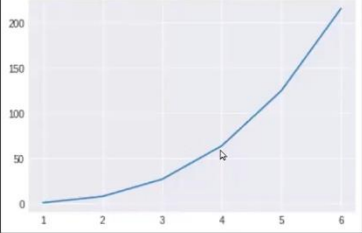
File Edit View Insert Runtime Tools Help All changes saved

+ Code + Text

```
[114] plt.style.use("seaborn-darkgrid")
```

```
x = np.array([1,2,3,4,5,6])  
y = np.power(x,3)  
plt.plot(x,y)
```

[<matplotlib.lines.Line2D at 0x7f9a570be950>]



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