FEW TO USE IN ML

1. Loading the Pima Diabetes.csv Dataset and Displaying Initial Rows with Pandas

import pandas as prince # Importing pandas with an alias

from pandas import Series

In pandas, a **Series** is a one-dimensional labeled array capable of holding any data type (integers, strings, floating-point numbers, Python objects, etc.). It is similar to a list or a column in a DataFrame but comes with additional functionality and is designed to work seamlessly with the pandas library.

filename = 'C:/Users/Other USER!/Desktop/ML_PROJECT/pima_indians.csv'
dataset = prince.read_csv(filename)
dataset.head()

2. To specify the number of rows to load from a CSV file in Pandas

dataset.head(12)

3. Using the .tail() function in pandas displays the last few rows of a DataFrame. By default, it shows the last 5 rows, but you can specify any number of rows you'd like to see.

dataset.tail() # by default, shows the last 5 rows dataset.tail(15) # shows the last 15 rows

4. This attribute .shape is often used to understand the size of a dataset quickly.

dataset.shape

If dataset.shape outputs (768, 9), it means the DataFrame has 768 rows and 9 columns.

5.	The dataset.info(memory_usage='deep') function in Pandas provides detailed
	information about a DataFrame, including the memory usage of each column, with 'deep'
	giving a more precise memory usage calculation.

dataset.info(memory_usage='deep')

6. The dataset.columns attribute in pandas returns an index object containing the names of all columns in the DataFrame.

dataset.columns

7. Allowing you to work with individual columns or arrays of data conveniently

```
old_column_names = Series(['Pregnancies', 'Glucose', 'BloodPressure'])
old_column_names # showing up with their index number (each column has own indece number)
```

8. Reads .csv file into a Pandas DataFrame while specifically selecting certain columns to import dataset = pd.read_csv(filename, usecols=[3,6,7]) dataset.head()

9.

Resources used:

1. Selecting columns when reading a CSV into pandas

https://www.youtube.com/watch?v=_oFrH8FJ44I

2.