

Introduction

In this play, you will learn about sorting, dropping and ranking data frames using pandas functions. As a data scientist, you will find these basic functions of utmost importance. These functions will help you in preprocessing your data frame so that it can be used for the further steps of the machine learning life cycle. You will learn about these functions in-depth here, so that when you will be going through the preprocessing phase you will not have to learn these functions again.

Objective

This play is aimed to make you familiar with the following data frame techniques :

1. **Sorting :**

Here you will learn about the following :

- How to sort a list in ascending or descending order
- How to sort a dataframe in ascending or descending order based on :
 - One column of the dataframe
 - Multiple columns of the dataframe

2. **Dropping :**

Here you will learn about the following :

- Using drop() function to drop rows or columns from dataframes
- Using dropna() function to do the following :
 - Drop rows or columns if they have 100% null values
 - Drop rows or columns if they have any null values
- Using drop_duplicates() function to drop duplicate rows based on :
 - All the columns of the dataframe
 - One or more specific columns of the dataframe

3. **Ranking :**

Here you will learn about the rank() function which will generate ranks of a column based on ascending or descending order.

End Point

At the end of this play you'll be confident in the techniques mentioned above. As mentioned, these techniques will be immensely useful while preprocessing your dataset and in many other steps of the machine learning lifecycle.