



# IOTA ACADEMY

***Become Job Ready...***



In this section of the course we will learn how to use pandas for data analysis. You can think of pandas as an extremely powerful version of Excel, with a lot more features. In this section of the course, we will follow the below given order.

- Introduction to Pandas
- Series
- DataFrames
- Missing Data
- GroupBy
- Merging,Joining,and Concatenating
- Operations
- Data Input and Output

## Introduction to Pandas

- Pandas is a library generally used for data manipulation and data analysis.
- Pandas is used to handle tabular data.
- it provides the data structure as well as functionality for managing numerical tables and time series.
- One shall use Pandas heavily for data manipulation, visualization, building machine learning models, etc.

**The two main data structures in Pandas are Series for 1-D data and DataFrame for 2-D data.**

- 1. Series - a 1-dimensional column of data.
- 1. DataFrame (most common) - a 2-dimesional table of data with rows and columns.

## Installing Pandas:

- using the following command in windows terminal

`pip install pandas`

## Great Job!