Data Analysis with Python and Pandas

Modality: On Demand

Duration: 6 Hours

About this course:

Python programmers are some of the most sought-after employees in the tech world, and Python itself is fast becoming one of the most popular programming languages. One of the best applications of Python however is data analysis; which also happens to be something that employers can't get enough of. Gaining skills in one or the other is a guaranteed way to boost your employability – but put the two together and you'll be unstoppable!

- Learn efficient python data analysis
- Manipulate data sets quickly and easily
- Master python data mining
- Gain a skillset in Python that can be used for various other applications

This course contains 51 lectures and 6 hours of content, specially created for those with an interest in data analysis, programming, or the Python programming language. Once you have Python installed and are familiar with the language, you'll be all set to go.

The course begins with covering the fundamentals of Pandas (the library of data structures you'll be using) before delving into the most important functions you'll need for data analysis; creating and navigating data frames, indexing, visualizing, and so on. Next, you'll get into the more intricate operations run in conjunction with Pandas including data manipulation, logical categorizing, statistical functions and applications, and more. Missing data, combining data, working with databases, and advanced operations like resampling, correlation, mapping and buffering will also be covered. By the end of this course, you'll have not only have grasped the fundamental concepts of data analysis, but through using Python to analyze and manipulate your data, you'll have gained a highly specific and much in demand skill set that you can put to a variety of practical used for just about any business in the world.

The average salary for Python Developer is **$92,000** per year.

Course Objective:

After completing this course, students will have a working understanding of:

- Introduction to Pandas
- IO Tools
- Pandas Operations
- Handling for Missing Data / Outliers
- Combining Dataframes
- Advanced Operations

Audience:

This course is intended for:

- Those people that need a deeper understanding of data analysis tools available today.

Prerequisites:

- Students should be experienced with the basics of Python programming.

Suggested prerequisites courses:

- Python for Beginners

- Python Programming for Beginners
- Python Object Oriented Programming Fundamentals

Course Outline:

- Introduction to the Course
- Introduction to Pandas
- IO Tools
- Pandas Operations
- Handling for Missing Data / Outliers
- Combining Dataframes
- Advanced Operations
- Working with Databases
- Course Conclusion