

# Advanced Pandas

GoSkills online course syllabus

**Skill level**

Beginner

**Lessons**

20

**Pre-requisites**

No prior experience needed

**Video duration**

1h 2m

**Estimated study time**

1h 2m

**Instructor**

Brett Vanderblock

## Introduction

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- 1** Take pandas to the next level  
Pandas makes data analysis smoother, faster, and more powerful.

## From Beginner to Advanced pandas

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- 2** Getting started with pandas  
pandas is the key python library for dealing with your data with all sorts of neat functions.
- 3** Intro to DataFrames using pandas  
There are a few key things to know about working with dataframes.
- 4** Top functions using pandas  
Do you know the top functions that are used in pandas? After watching this video, you'll be able to identify the top functions in pandas.
- 5** Configuring options using pandas  
There are a few options you should be aware of when configuring your pandas workspace.

## Advanced Calculations

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- 6** Data type conversions using pandas  
Do you know how to convert your data types? After watching this video, you'll be able to convert data types.
- 7** Working with strings using pandas  
There are a few key things you should know about using strings. After watching this video, you'll be able to effectively work with strings.

**8** Working with dates using pandas  
There are a few key things you should know about handling date data.

**9** Dealing with missing data using pandas  
Missing data can really derail an analysis. After watching this video, you'll be able to handling missing data with pandas functions.

**10** Apply/Map/Applymap  
Do you know how to use the apply and map functions? After watching this video, you'll be able to use the apply map and applymap functions effectively.

## Transforming DataFrames

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**11** Groupby and aggregations using pandas  
Do you know how to combine Groupby and Multiple Aggregate Functions in pandas?

**12** Reshaping DataFrames (pivot, stack)  
Reshaping DataFrames can be done simply. After watching this video, you'll be able to reshape your dataframes using pivot and stack.

**13** Merging (merge, join) and concatenating (concat) DataFrames  
Combining data from different DataFrames is essential to getting the most out of your data.

**14** Mapping variables into groups  
Pandas has capabilities to make categorizing your data simpler. After watching this video, you'll be able to map your variables into groups.

## Exploratory Data Analysis & Visualization

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**15** Plotting with pandas  
Plotting can be done simply using pandas functions. After watching this video, you'll be able to plot with advanced pandas functions.

**16** Correlations and statistical functions  
Statistics functions are right at your fingertips in pandas.

## Beyond Pandas

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## 17 Accelerate EDA with pandas-Profiling

Exploratory Data Analysis can be done easily in python. After watching this video, you'll be able to make use of pandas-profiling for fast EDA.

## 18 Explore Geographic data with Geopandas

Working with geographic data is easy and rewarding with Geopandas.

## 19 Beyond pandas with Dask and Koalas (Spark)

When dealing with truly big data, there are other optimized approaches outside of pandas.

# Conclusion

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## 20 Your path forward using advanced pandas functions

Congratulations on completing this course!

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