

From Pandas to Polars

GoSkills online course syllabus

Skill level

Beginner

Lessons

19

Pre-requisites

No prior experience needed

Video duration

1h 0m

Estimated study time

1h 13m

Instructor

Brett Vanderblock

Introduction

1 From pandas to polars

It's essential to explore the motivations and inherent benefits underpinning the transition from Pandas to Polars.

Understanding Pandas vs Polars

2 Features, strengths, and limitations of pandas

There are core strengths and inherent limitations embedded within the Pandas framework.

3 Key features and benefits of transitioning to polars

Polars has unique functionalities and salient advantages.

Polars Core Concepts and Differences

4 Data structures: pandas dataframe vs polars dataframe

There are notable similarities and differences in the data structures inherent in Pandas and Polars DataFrames.

5 Indexing and data selection

There are contrasting methods of indexing and data selection techniques within Pandas and Polars.

6 Comparing data manipulation

There are nuanced variations in data manipulation techniques between Pandas and Polars.

7 Handling missing data

It is important to know how to engage in an in-depth study of handling missing data in both Pandas and Polars.

8

Apply aggregation and grouping

Polars requires a nuanced approach to aggregation and grouping.

Comparing Performance and Efficiency

9

Memory management in polars

It is important to grasp how Polars optimizes memory usage, enhancing data processing efficiency.

10

Efficient data processing with polars

Polars allows you to leverage advanced strategies for expeditious data processing.

11

Benchmarking performance of pandas vs polars

Benchmarking exercises allow you to methodically analyze and compare the performance metrics of Pandas and Polars.

Advanced Polars Features

12

Explore advanced polars functions

There are several intricate functionalities available within the Polars library.

13

Time series analysis in polars

streamlined techniques for conducting time series analysis allows for higher levels of efficiency.

Practical Applications

14

Real-world data analysis

Understanding how Polars functions in diverse real-world data analysis scenarios will allow for practical insights.

15

Transitioning your pandas code to polars

It is possible migrate existing Pandas code to Polars.

16

Moving between pandas and polars

There are several instances in which knowing how to move between Pandas to Polars will be beneficial.

Best Practices and Optimization

17 Writing efficient polars code
Polars can be a powerful tool for crafting efficient and effective code.

18 Debugging and troubleshooting in polars
There are debugging and troubleshooting techniques specific to Polars.

Conclusion

19 The future of data analysis with polars
It is important to be able to anticipate potential future developments and applications of Polars in data analysis.

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