# Only Code If You Want To: Data Science with DataLab (Part 1)

May 28, 2024

**Adatacamp** 

## Hello!

#### I'm Filip Schouwenaars

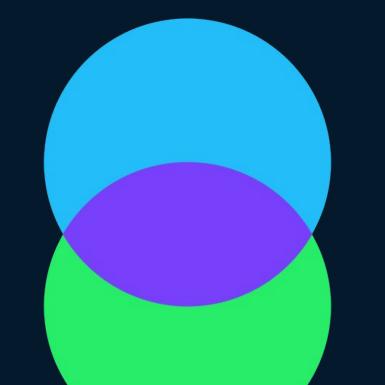


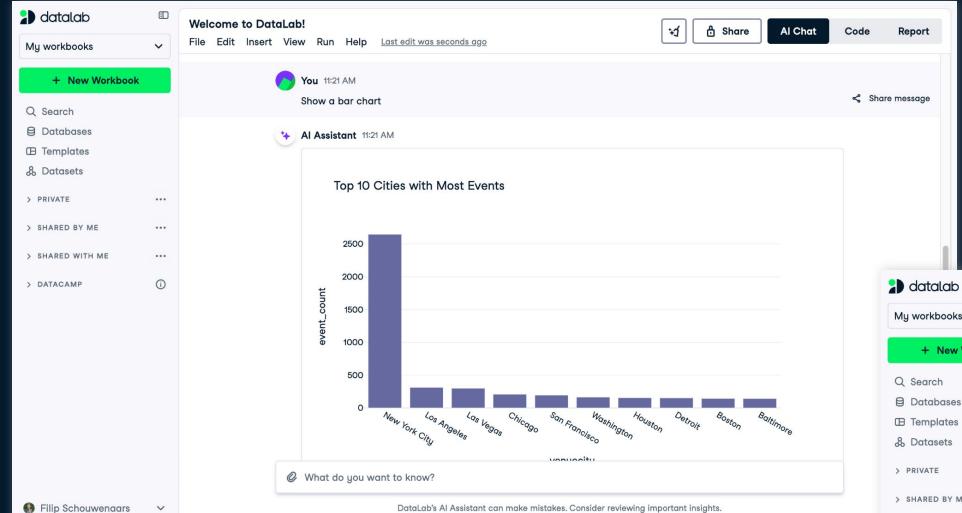
#### Filip Schouwenaars

VP of Product & Engineering

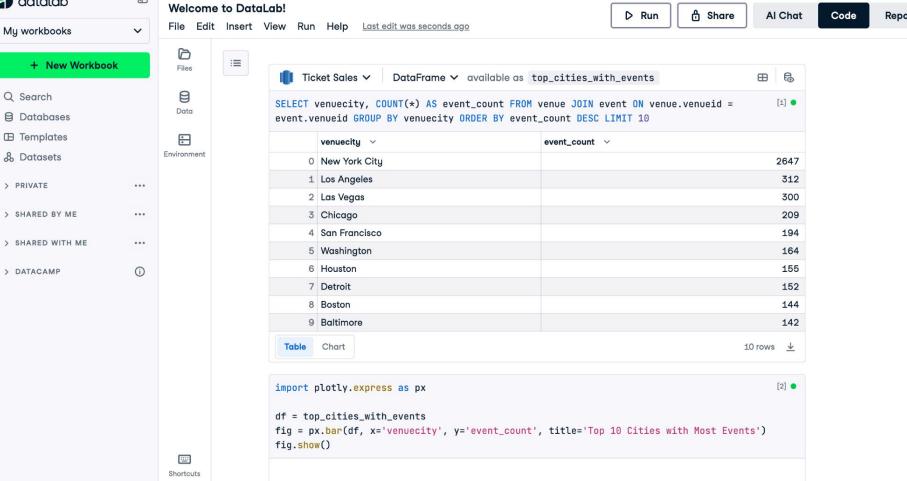


in <u>fschouw</u>





Fully-featured data notebook to build analyses



Top 10 Cities with Most Events

BETA

Filip Schouwenaars

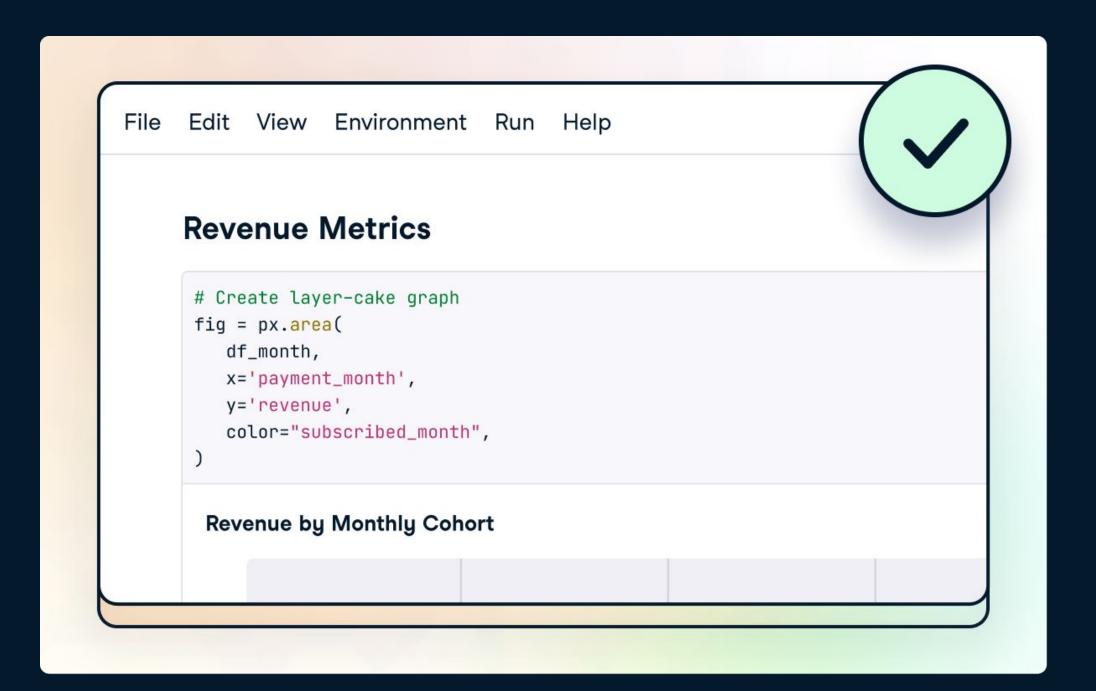
Al Chat to analyze data without writing code

#### Ready to go

You can participate in this code along by just clicking a link. Everything happens in the web browser. No installation is required.

Every DataLab workbook runs in a fully-managed, cloud-hosted environment with all common data science packages pre-installed.

DataLab supports Python, R and SQL.



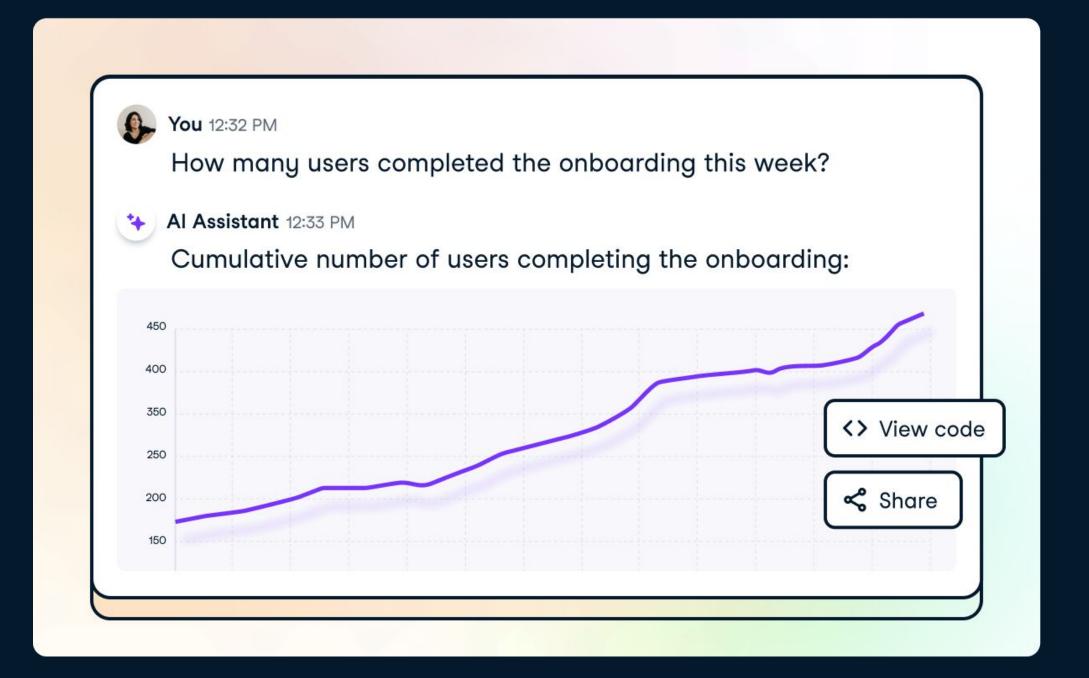


#### Al built-in throughout

Al Chat: explore your data and dig for insight without writing code.

Al Coding Assistant: write, adjust and refactor code with the help of Al. Have the Al fix and explain coding mistakes, helping you build more skill in the process.

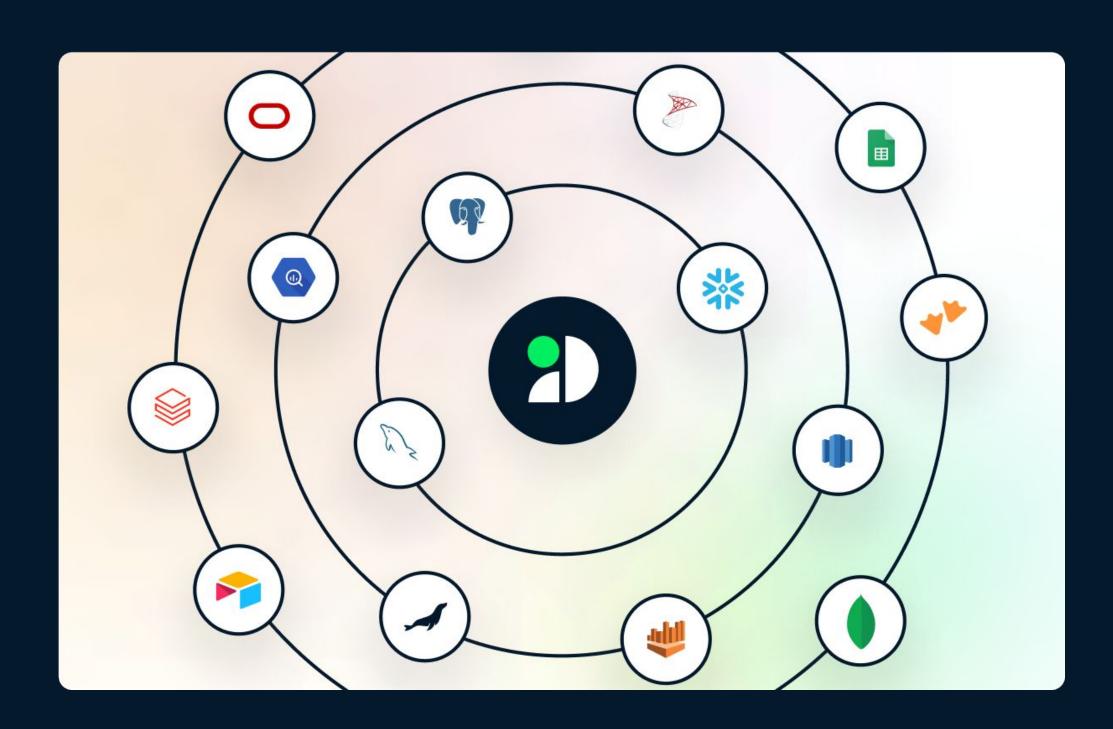
DataLab smartly enhances your question with your unique context to get great results fast.



#### Integrate with your stack

From CSV files and Google Sheets data to Snowflake and BigQuery: DataLab instantly and securely connects to all your data sources.

Don't have a dataset lying around? Pick one of DataLab's many sample data sources available in the app.





### About this <del>code</del> prompt-along



**Data:** Agricultural raw material prices (<u>source</u>): wool, copra, cotton, fine wool, hardlog, etc.



**Primary Goal:** Understand trends over time and correlations in raw material prices.



**Secondary Goal:** Understand the power and limitations of conversational Al-powered exploration.

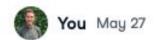


**Why?** Generative AI is rapidly changing how we analyze data; it pays to keep up with this evolution.



**Important:** Al systems are stochastic; the same prompt may lead to different results!





Al Assistant May 27

Month

0 Apr-90

1 May-90

2 Jun-90 3 Jul-90

4 Aug-90

Hard log Price V Hard log price % Change

161.2 -

172.86 7.23%

181.67 5.10%

187.96 3.46%

186.13 -0.97%

I want to analyze time series data on wood alone, can you zoom in on those columns?

Hard sawnwood Price V Hard sawnwood price % C... V So

5 rows ↓

549.91 -

491.88 -10.55%

495.39 0.71%

485.86 -1.92%

487.52 0.34%

Prompt generator You are an AI assistant for DataLab, a data notebook. [...] This dataset is connected: [...] These variables are defined in the session: [...]

The previous chats and code: in the workspace: [...]

My question or goal: I want to analyze time [...] wood alone.





createCell('python', 'wood\_columns = ...') runCell('1ja8e390n')

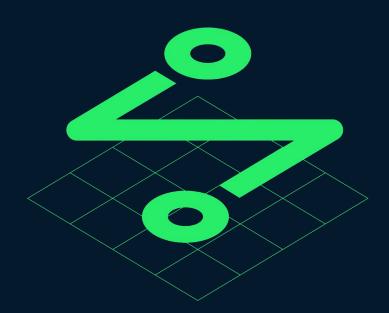


You are an Al assistant for DataLab, a data notebook. [...] My question or goal: Describe the results.



The filtered dataset focuses on wood-related materials and includes the following columns: Month, Hard log Price, Hard log price % Change, Hard sawnwood Price, Hard sawnwood price % Change, Softlog Price, Softlog price % Change, Soft sawnwood Price, Soft sawnwood price % Change, Wood pulp Price, and Wood pulp price % Change. The data spans multiple months, starting from April 1990, and provides both the prices and percentage changes for each woodrelated material.





## Want to learn more?

- ✓ Play around with more <u>sample datasets</u>
- Relive past code alongs
- Read the <u>DataaLab Docs</u>

