

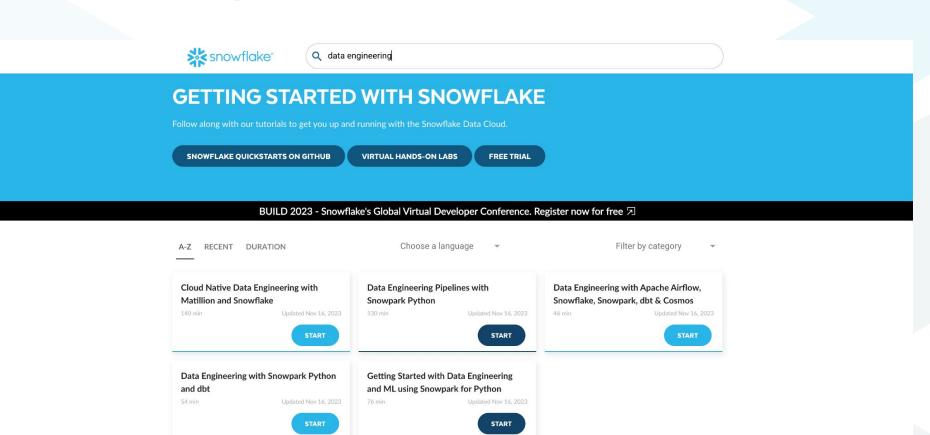
SNOWFLAKE FOR DATA ANALYSIS

Vino Duraisamy | Nov 2023

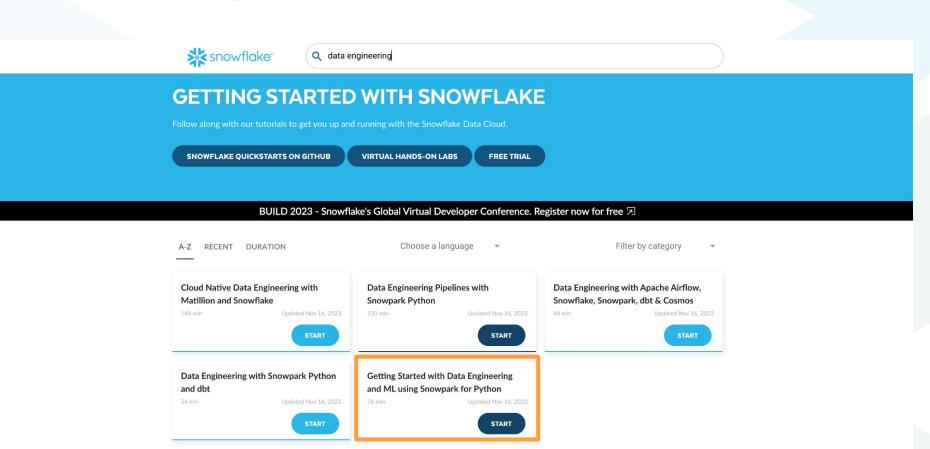
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PRE-REQUISITES FOR CODE-ALONG

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× Getting Started with Data Engineering and ML using Snowpark for Python

1 Overview	
2 Setup Environment	
3 Get Started	
4 Data Engineering	
5 Data Pipelines	
6 Machine Learning	
7 Streamlit Application	
8 Cleanup	
Conclusion And Resources	

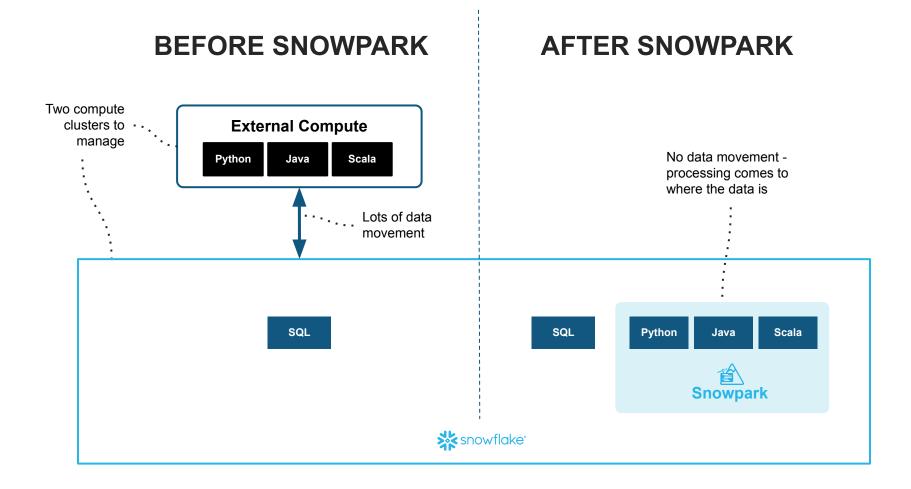
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Prerequisites

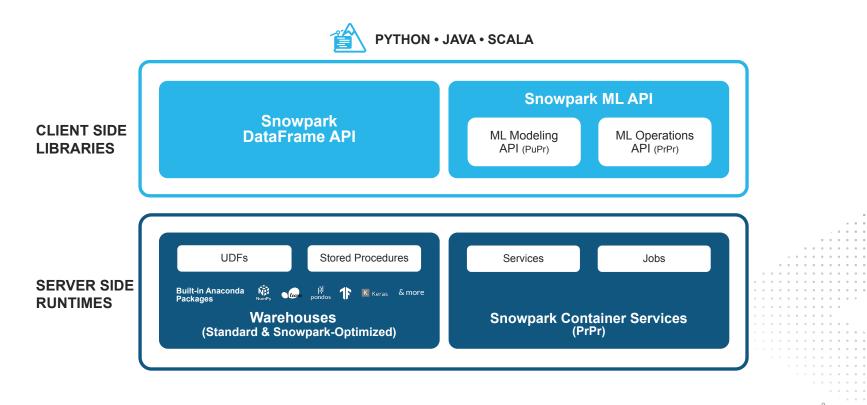
- <u>Git</u> installed
- <u>Python 3.9</u> installed
 - $\,\circ\,$ Note that you will be creating a Python environment with 3.9 in the Get Started step
- A Snowflake account with <u>Anaconda Packages enabled by ORGADMIN</u>. If you do not have a Snowflake account, you can register for a <u>free trial account</u>.
- A Snowflake account login with ACCOUNTADMIN role. If you have this role in your environment, you may choose to use it. If not, you will need to 1) Register for a free trial, 2) Use a different role that has the ability to create database, schema, tables, stages, tasks, user-defined functions, and stored procedures OR 3) Use an existing database and schema in which you are able to create the mentioned objects.

IMPORTANT: Before proceeding, make sure you have a Snowflake account with Anaconda packages enabled by ORGADMIN as described <u>here</u>.

SNOWFLAKE SQL + SNOWPARK PYTHON



Snowpark: Securely Deploy & Process Non-SQL Code





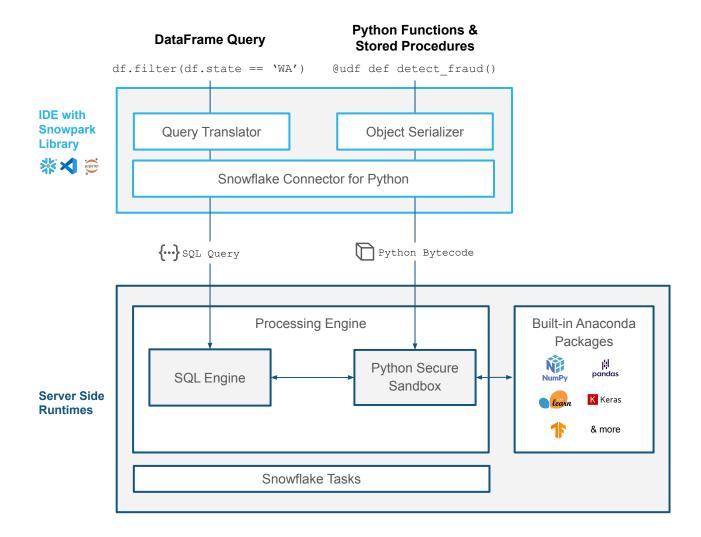
> Develop in IDE of
Choice
Use Python worksheets,
VSCode, Jupyter or any client
with a python kernel

> Process with security & scalability

Bring processing to governed data for DataFrame operations and custom Python/Java code

> Automate code execution

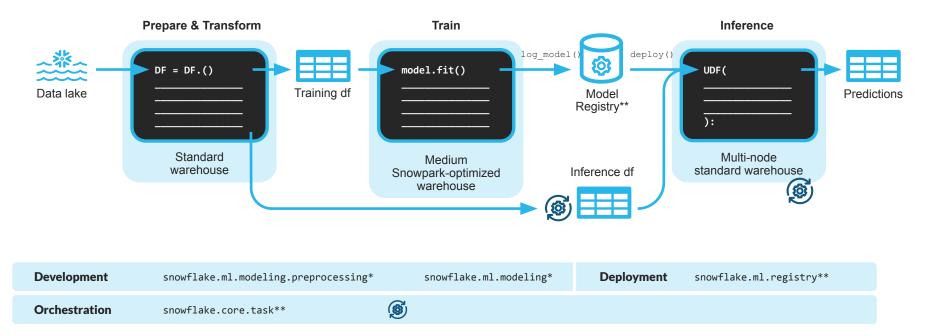
Orchestrate your code with DAG representations using SProcs with Snowflake Tasks





End-to-End Data Science Workflow

Effortless, scalable and secure processing without data movement across compute environments



LEIS WRITE SOME GODE

MARKETING SPEND AND REVENUE ANALYSIS

STEP #1 signup.snowflake.com

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