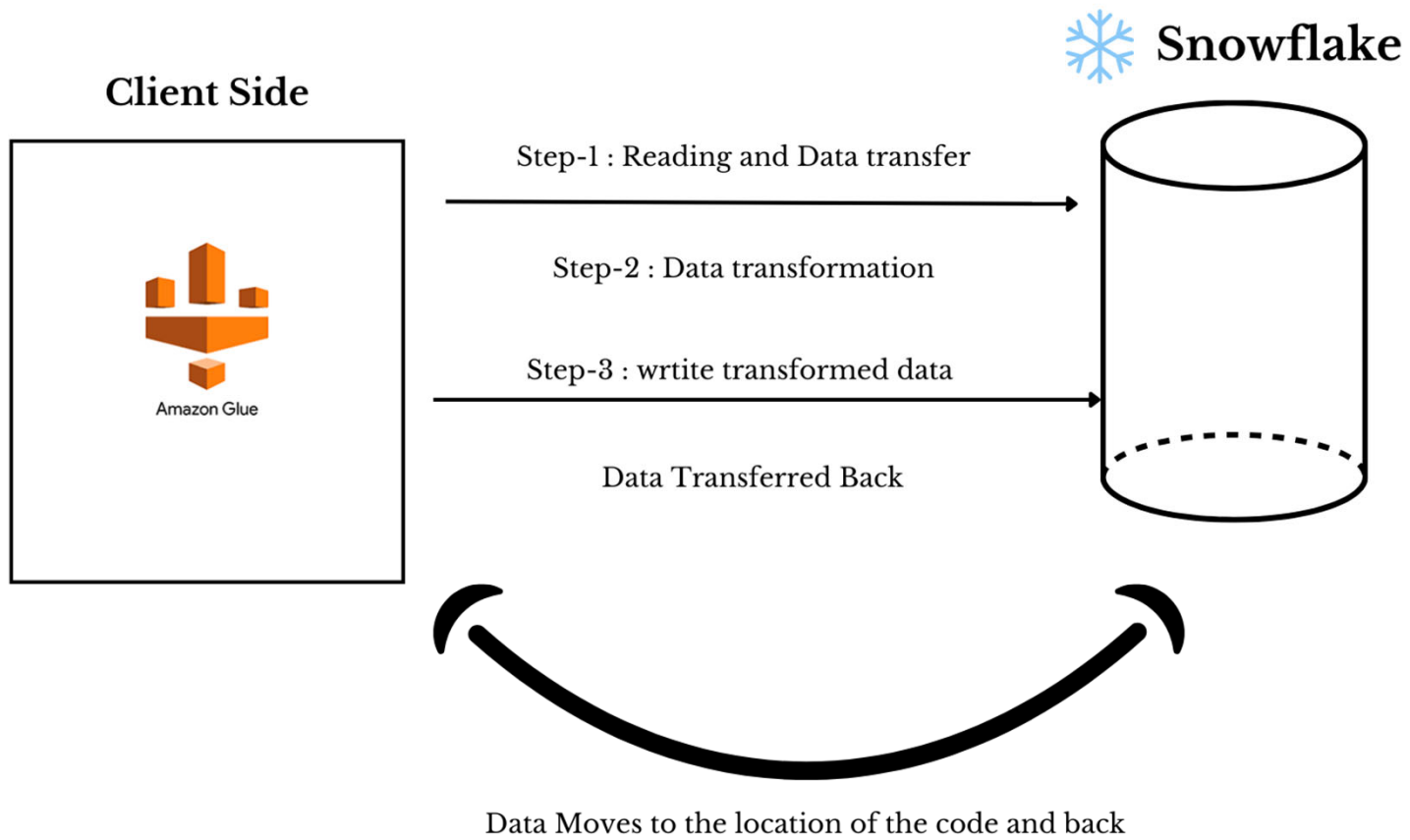
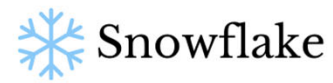


SNOWPARK API

- The Snowpark library provides an intuitive API for querying and processing data in a data pipeline
- The core abstraction in Snowpark is the DataFrame and also supports embedded SQL
- **Use-Cases :**
 - Data Transformations using Dataframes
 - Machine Learning deployments
- Snowpark operations are executed lazily on the server
- With Snowpark , you reduce or eliminate the need to move data outside of your snowflake servers
- Snowpark does not require a separate cluster outside of Snowflake for computations as all of the computations are done within Snowflake





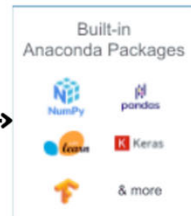
Client Side



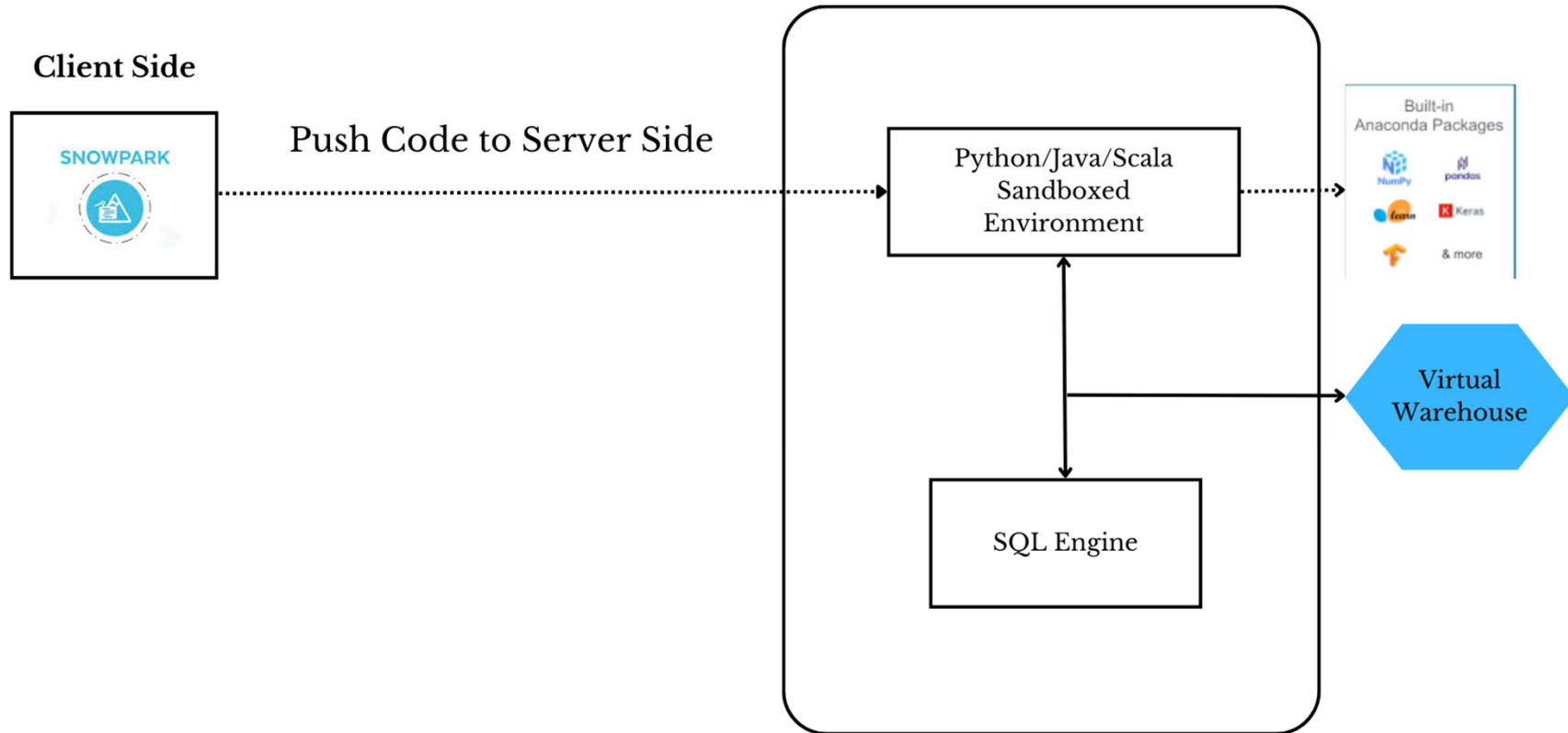
Push Code to Server Side

Python/Java/Scala
Sandboxed
Environment

SQL Engine



Virtual
Warehouse



SNOWPARK DRAWBACKS

- **Architectural / Design complexity**
 - SQL only/low-code design to a more developer/engineering oriented approach
- **Vendor dependency / Non-cloud-agnostic pipelines**
 - Snowpark only works with Snowflake