

EvaDB in Amazon Sagemaker

Introduction

Amazon SageMaker is a cloud machine learning platform which provides developers with tools to create, train, and deploy ML models. EvaDB aligns with sage maker in its goals but with a very different execution, abstracting many of the details of creating ML models to make model creating simpler. EvaDB, however, could possibly be used more productively for advanced users by handling or assisting in the execution of certain steps of the ML model pipeline.

Importance

For more complex machine learning tasks, advanced users may not have the pure granular control over EvaDB's processes but would still benefit from its capabilities as part of the ML model production cycle. For this target audience, having EvaDB usable within Amazon SageMaker, the leading tool in granular model creation, would provide great value.

Idea, Supported Queries, and Challenges

Containers for EvaDB to operate within Amazon SageMaker could provide the great utilities mentioned before to developers. The EvaDB container would be built to support tedious tasks within the ML life cycle such as training, testing, and data extraction, preparation and analysis. It might be difficult to indirectly integrate EvaDB within SageMaker.

Dev Environment, Progress, Testing, and Plans

I'll be building the container following the similar MindsDB container using Python and Shell Scripts. So far I've set up EvaDB locally and checked out the MindsDB container. The plan for the project is to make a fully working EvaDB container which can be seamlessly integrated into Amazon Sagemaker's environment. After checking its functionality is like that of EvaDB outside of Sagemaker (checked Sagemaker doesn't interfere in sample queries), a pull request can be made.