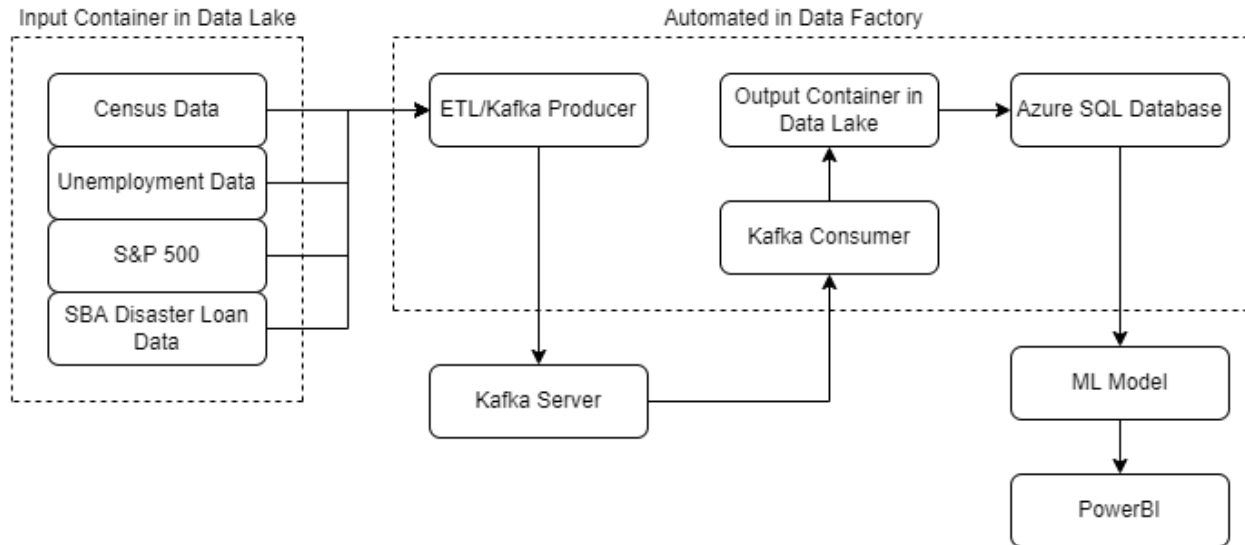


Data Platform



1. Our data begins stored in a container in Azure Data Lake.
2. Automated by the data factory, a databrick will read in the data, do ETL, and act as a kafka producer.
3. The producer feeds data to the kafka server with a delay to simulate a datastream.
4. After waiting a fixed amount of time, a databrick acting as the kafka consumer begins reading messages from the kafka server.
5. The kafka consumer writes the data out to a container in Azure Data Lake.
6. The data factory copies this data into an Azure SQL server as the datastream is read.
7. An ML model reads the contents of Azure SQL database and trains on it.
8. The ML model is imported into PowerBI for visualizations and analysis.