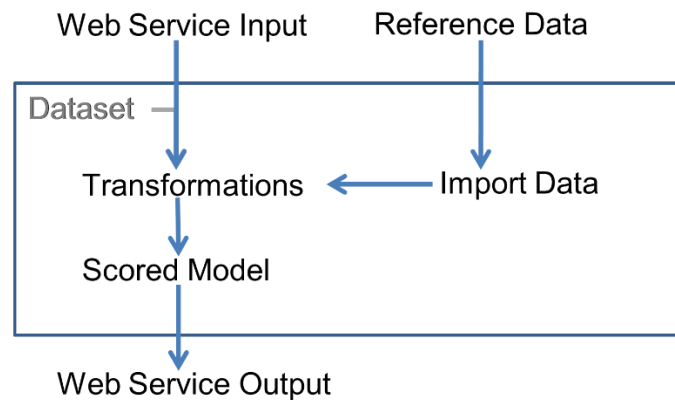


# Data Science Essentials

## Data Ingestion and Flow

An Azure ML experiment is usually published as a Web service, to which real-time data can be passed as input and results are returned as output. In addition to the real-time data passed to the web service, the experiment may reference static data. This is illustrated in the following image:

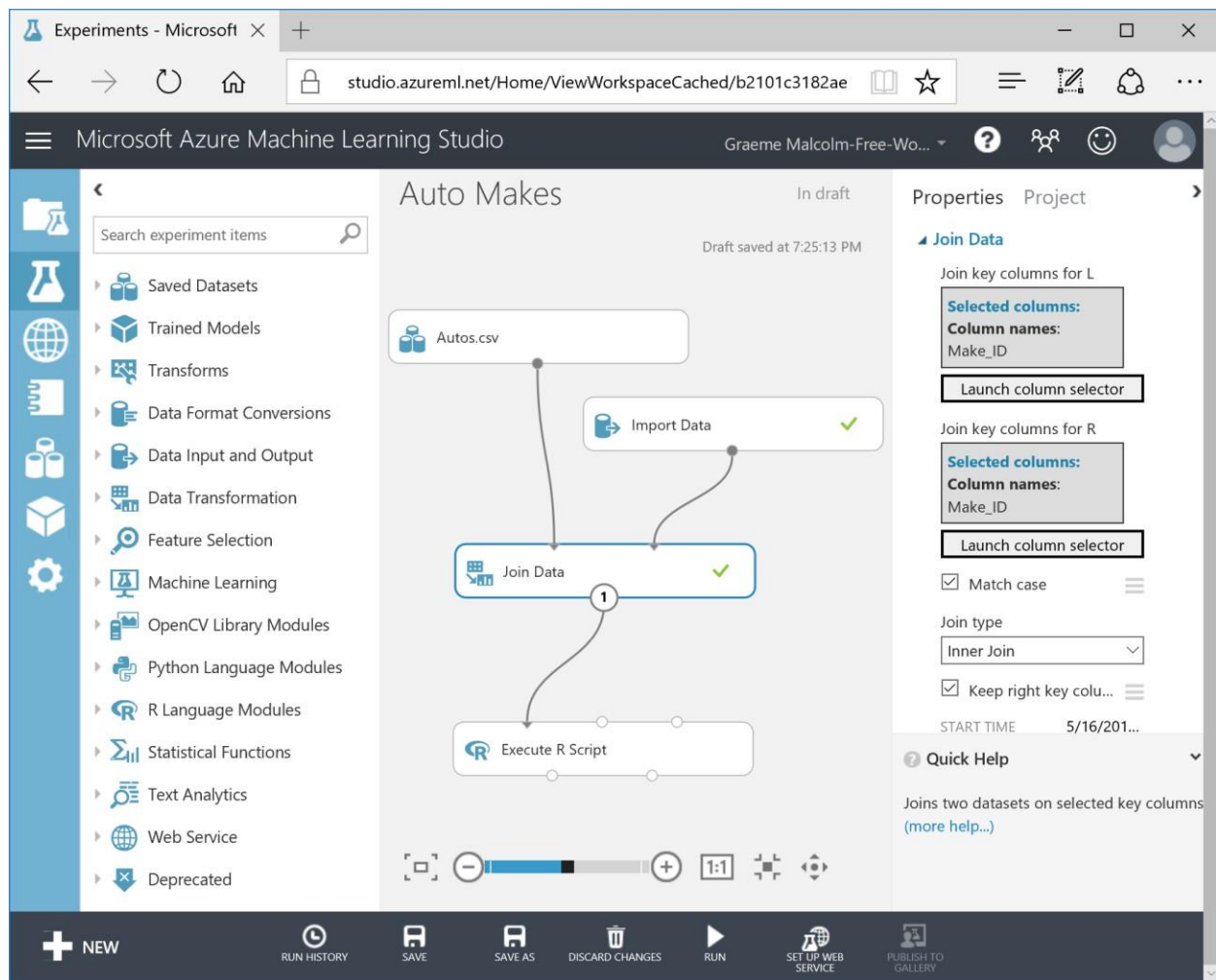


You can use the following Azure ML modules to read data:

- **Dataset** (read data from sample data or manually uploaded data files)
- **Import Data**: (read data from external sources such as Azure storage, Azure SQL Database, HTTP URLs, data feeds, Hive tables in Hadoop)

You can use the **Join Data** module to combine two datasets based on common key fields.

The following experiment ingests source data from a dataset, uses an **Import Data** module to import reference data from a relational database, and uses a **Join Data** module to match rows in the two data sources.



For more information, see the following documentation:

- **Import Data:** <https://msdn.microsoft.com/en-us/library/azure/dn905997.aspx>
- **Data Input and Output:** <https://msdn.microsoft.com/en-us/library/azure/dn906024.aspx>
- **Join Data:** <https://msdn.microsoft.com/en-us/library/azure/dn905836.aspx>