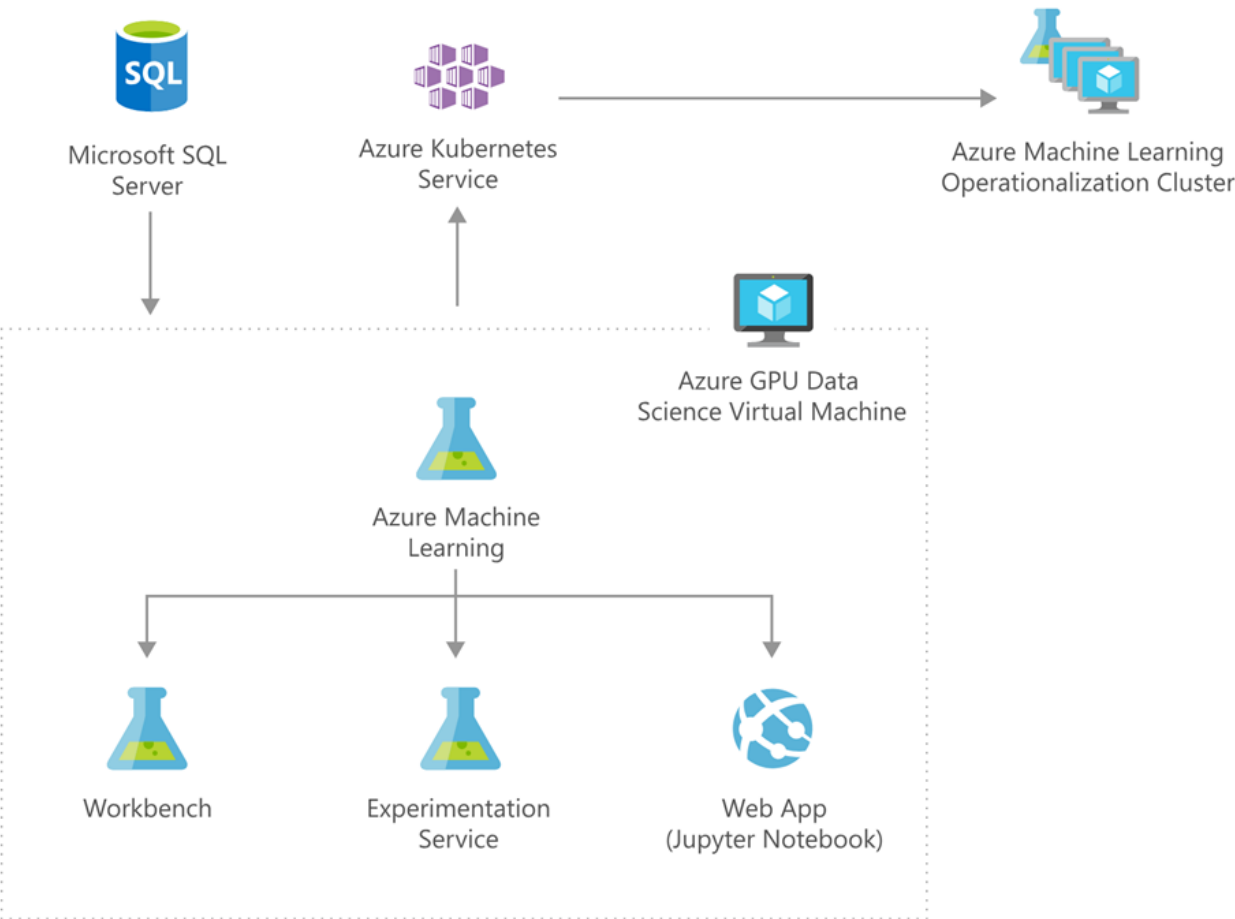




# Information discovery with deep learning and natural language processing



PRODUCTS	DESCRIPTION
Microsoft SQL Server	Data is stored, structured, and indexed using Microsoft SQL Server.
GPU based Azure Data Science Virtual Machine	The core development environment is the Microsoft Windows Server 2016 GPU DSVM NC24.
Azure Machine Learning Workbench	The Workbench is used for data cleaning and transformation, and it serves as the primary interface to the Experimentation and Model Management services.
Azure Machine Learning Experimentation Service	The Experimentation Service is used for model training, including hyperparameter tuning.
Azure Machine Learning Model Management Service	The Model Management service is used for deployment of the final model, including scaling out to a Kubernetes-managed Azure cluster.
Jupyter Notebooks on Azure Data Science VM	Jupyter Notebooks is used as the base IDE for the model, which was developed in Python.
Azure Container Registry	The Model Management Service creates and packages real-time web services as Docker containers. These containers are uploaded and registered via Azure Container Registry.
Azure Kubernetes Service (AKS)	Deployment for this solution uses Azure Kubernetes Service running a Kubernetes-managed cluster. The containers are deployed from images stored in Azure Container Registry.