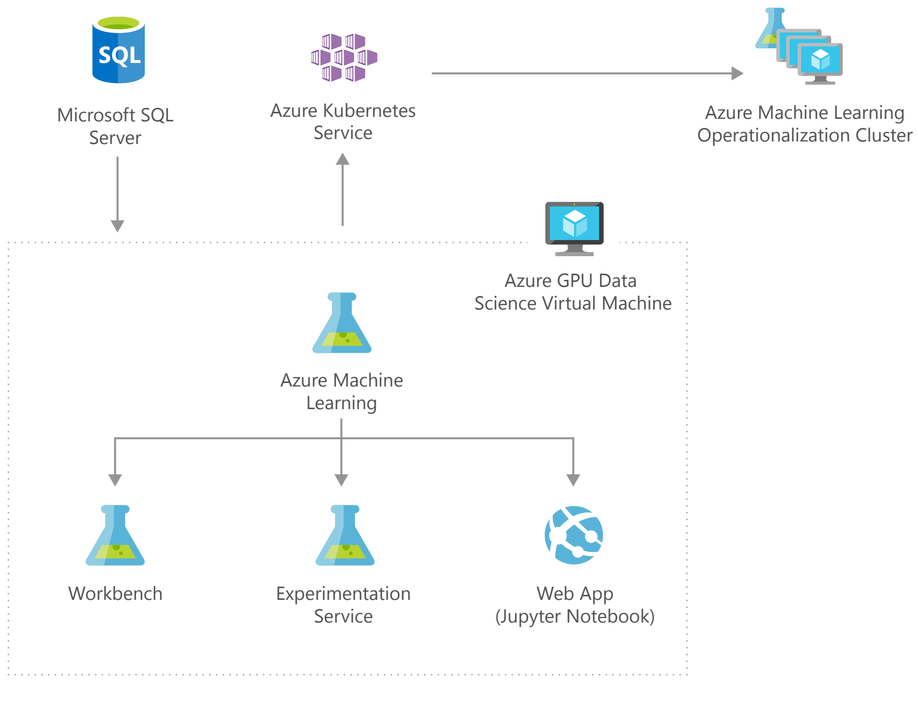
Information discovery with deep learning and natural language processing



Architecture overview

Social sites, forums, and other text-heavy Q&A services rely heavily on tagging, which enables indexing and user search. Without appropriate tagging, these sites are far less effective. Often, however, tagging is left to the users' discretion. And since users don't have lists of commonly searched terms or a deep understanding of the categorization or information architecture of a site, posts are frequently mislabeled. This makes it difficult or impossible to find that content when it's needed later.

By combining deep learning and natural language processing (NLP) with data on site-specific search terms, this solution helps greatly improve tagging accuracy on your site. As your user types their post, it offers highly used terms as suggested tags, making it easier for others to find the information they're providing.

Azure products used in this solution

- Microsoft SQL Server
- Azure Machine Learning Experimentation Service
- GPU based Azure Data Science Virtual Machine
- Azure Machine Learning Experimentation Service
- Azure Machine Learning Workbench
- Jupyter Notebooks on Azure Data Science VM
- Azure Container Service Cluster
- Azure Kubernetes Service