Microsoft

Data Science Essentials

Publishing an Azure ML Experiment as a Web Service

After you have created a model in an Azure ML experiment, you can publish it as a web service. This creates a web service input based on the schema of your initial dataset, and a web service output based on the results from a **Score Model** module.

After publishing a model as a web service, client applications can access it through a REST interface (where JavaScript Notation, or JSON, documents are exchanged over HTTP). To do this, they need to specify the appropriate endpoint URL for the web service and the secure key required to access it.

Each web service supports two endpoints:

- **Request-Response Service**: Use this for synchronous prediction for single or multiple data rows.
- **Batch Execution Service**: Use this for asynchronous prediction for high-volume batches of data.

Note: Many modules in an Azure ML experiment are automatically converted to transformations in a web service. However, you should consider the modules in your experiment carefully, and remove any that are useful when training a model from existing data, but which might case incorrect results or errors when used in a web service that accepts a single row as input. In particular, you should carefully test any custom R or Python code in your web service before using it in production – especially if the code aggregates multiple rows of data or generates statistics from training data, as this must be modified to work correctly when new input data is passed to the web service.

For more information about publishing an Azure ML web service, see https://azure.microsoft.com/en-us/documentation/articles/machine-learning-publish-a-machine-learning-web-service.