Assignment 3 Proposal

Team 11

Kinjal Gada

Ankur Vora

Krutika Dedhia

Overview

Steps to deploy the model as web service which were created in Midterm Part 2.

Goals

To deploy a web service for existing data and models created in the Midterm Part 1 and Part 2.

Specifications

Using Azure Machine Learning studio to perform this task.

Implementation Steps

Steps involved:

1. Create a Machine Learning workspace.
2. Upload existing clean and wrangled data from Part 1.
3. Create a new experiment.
4. Split the data into train and test datasets into 40:60 ratio using the split data module.
5. Train and evaluate the models
   a. Drag Two-Class Boosted Decision Tree module and Train module onto the canvas and execute the R-Script for the selected column from launch column selector to be predicted for the dataset to be trained
   b. Normalize the trained data
   c. Execute R- Script on normalized data using Two-Class Support Vector Machine connected to the output port of trained model which is in turn connected to the left port of score model.
   d. Use evaluate module to evaluate the scoring results.
   e. Click the output port of evaluate model and click visualize to compare the two scored datasets.
6. Convert the training experiment into a predictive experiment and deploy it as a web service.

a. Click on Setup Web service module. This will save the trained model and remove the unwanted modules and define a web service and add web service input and web service output modules.

b. Connect the metadata Editor to score model and click on Score model to check the results.

c. Select Deploy Web Service [Classic] by Clicking the Deploy Web Service and configure the service by clicking the configuration tab.

d. Select the pricing plan and click deploy.

7. We can then access and test the web service.