



# Retail POC 2.0

Proof of Concept Guide

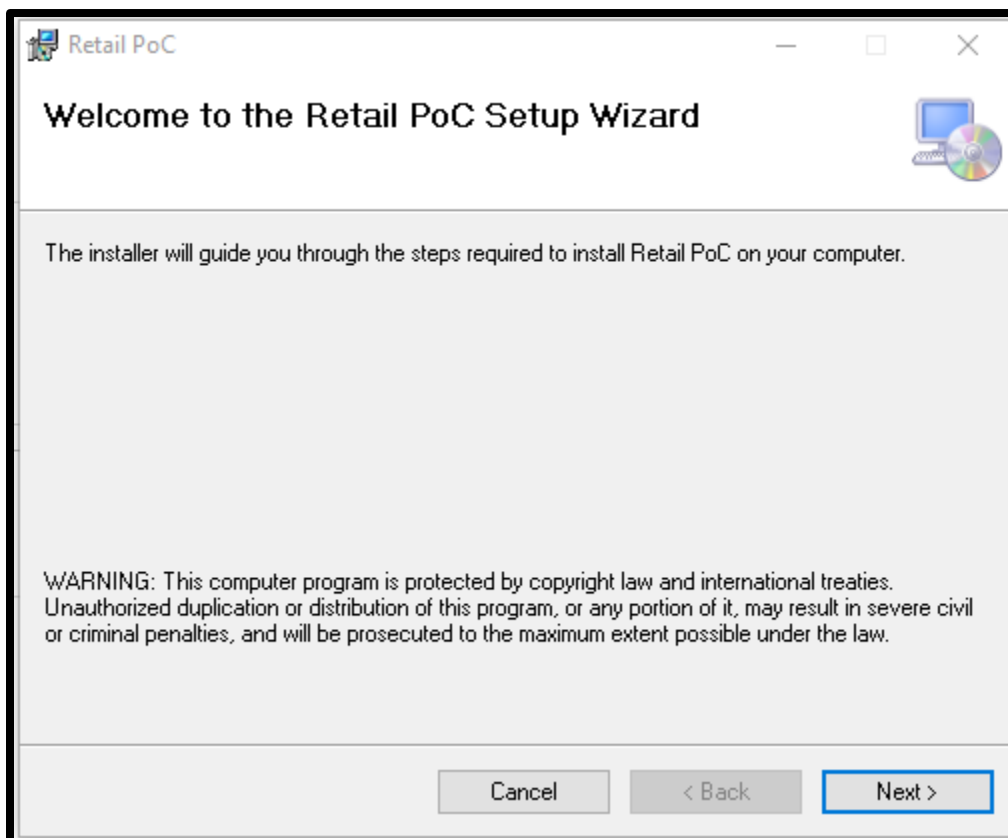
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## Setting Up and Installation

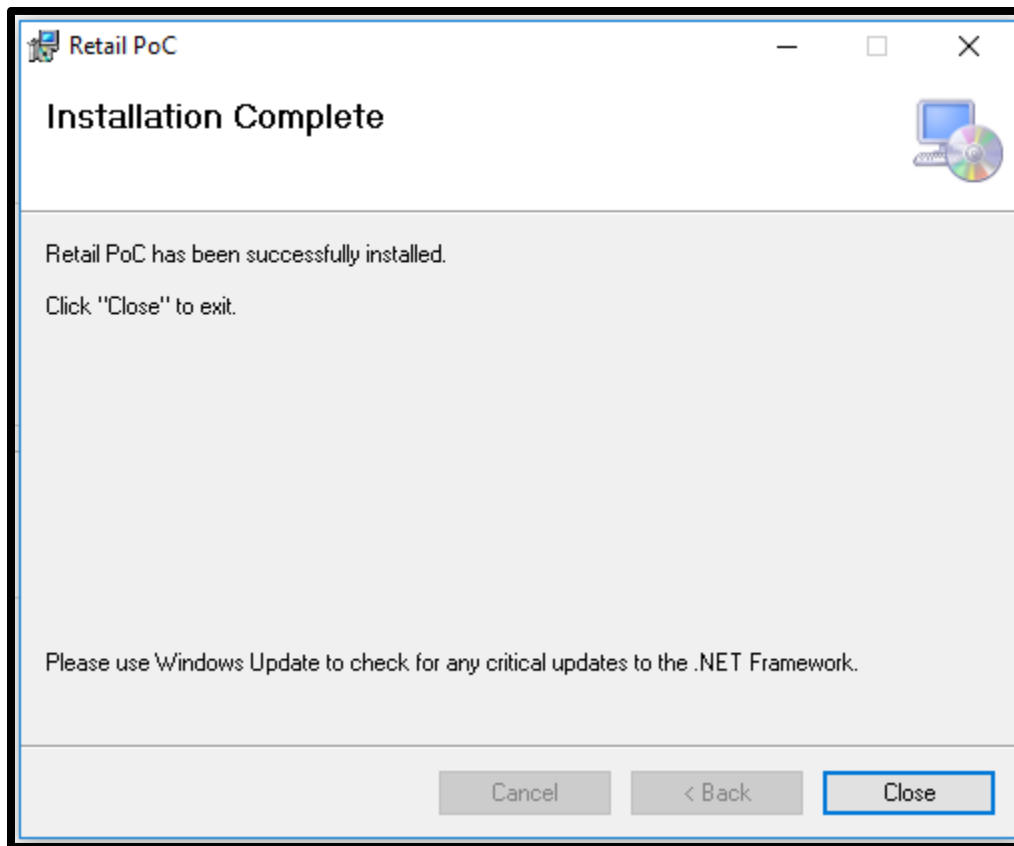
A zip file will be sent for setting up the IBM Proof of Concept application. After extracting the files, click the setup application to start the setup process.

Name	Date modified	Type	Size
 RetailPoCIBMSSetup	10/31/2017 5:07 PM	Windows Installer ...	4,296 KB
 setup	10/31/2017 5:07 PM	Application	983 KB

A setup wizard will guide you through the steps required to install IBM Proof of Concept application on your computer.

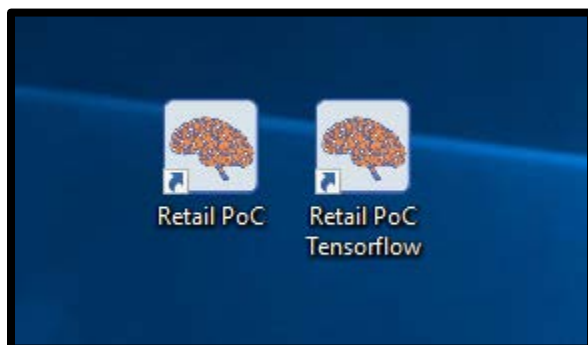


You will be notified when a successful installation has been completed.

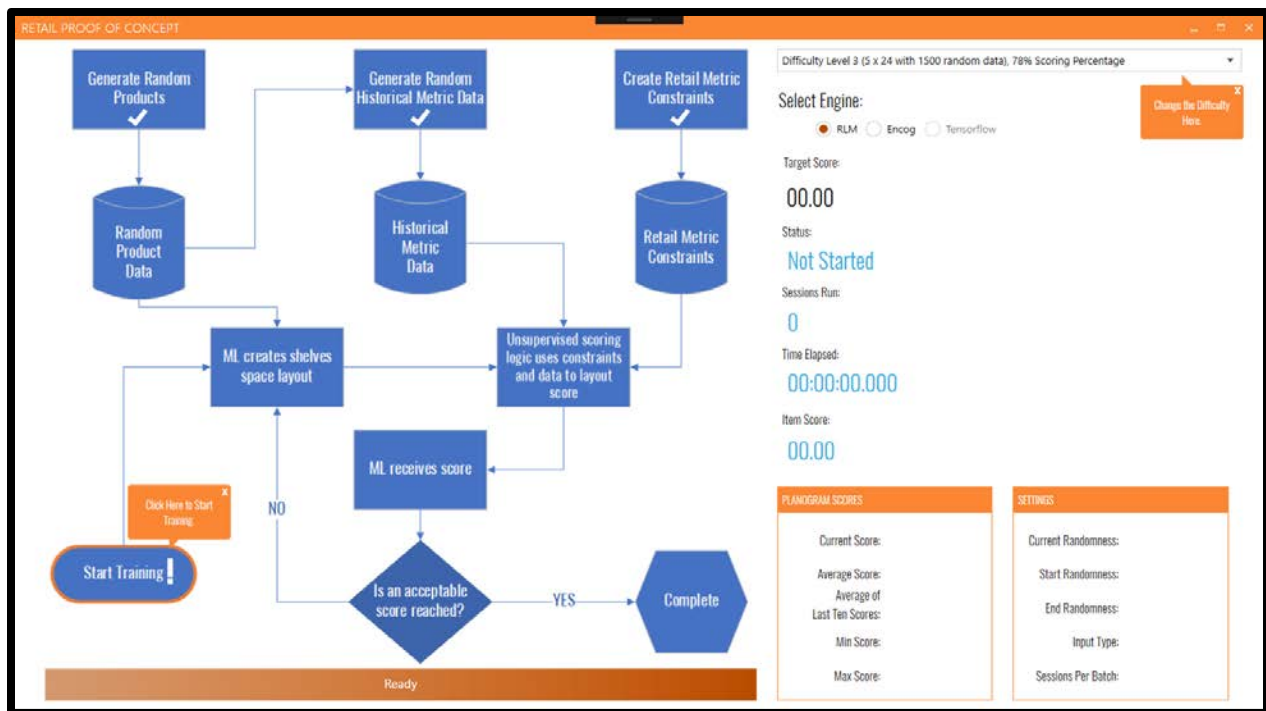


## Running IBM Proof of Concept Application

After installation, a desktop shortcut icon will be shown in your computer. Look for Retail PoC shortcut icon.

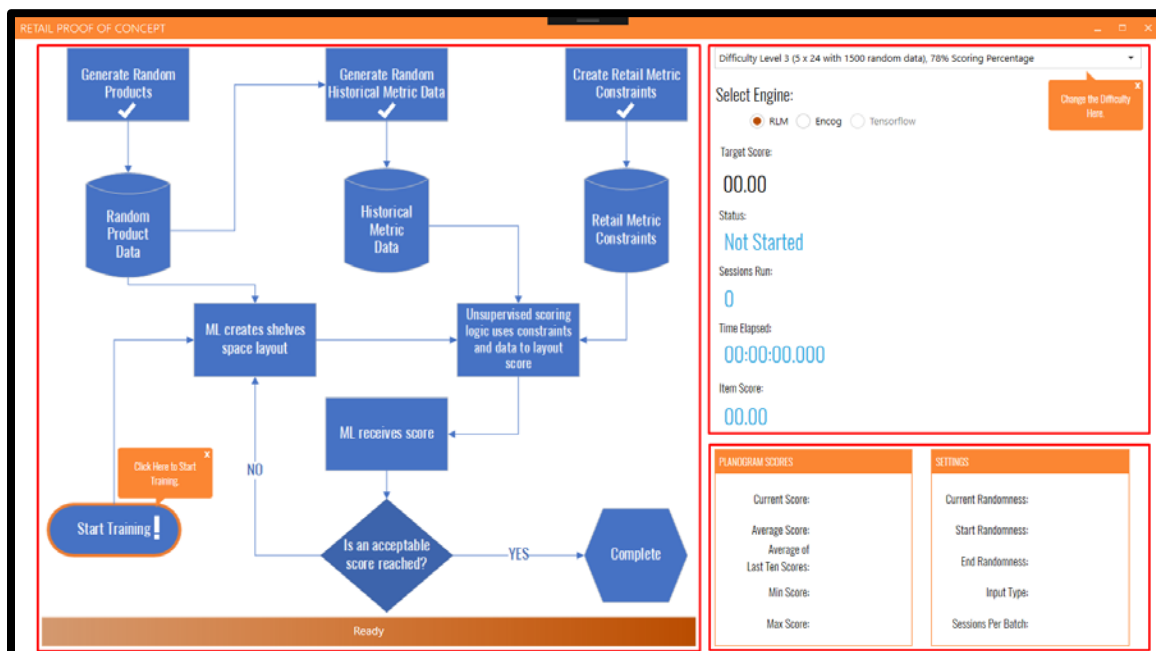


Click on the icon and it will bring you to the main window of the IBM Proof of Concept application.



## Knowing the Interface

Main window is divided into 3 parts. The flowchart, engine settings and visualization table shown below.



The flowchart shows the flow of the data simulation process. Some processes can be clicked when the app is running. A progress bar is shown at the bottom of the flow chart and tool tips are provided for reference.

The upper right part shows the settings for the data types and engines.

The visualization table on the lower right shows the used settings and current statistics for the engine.

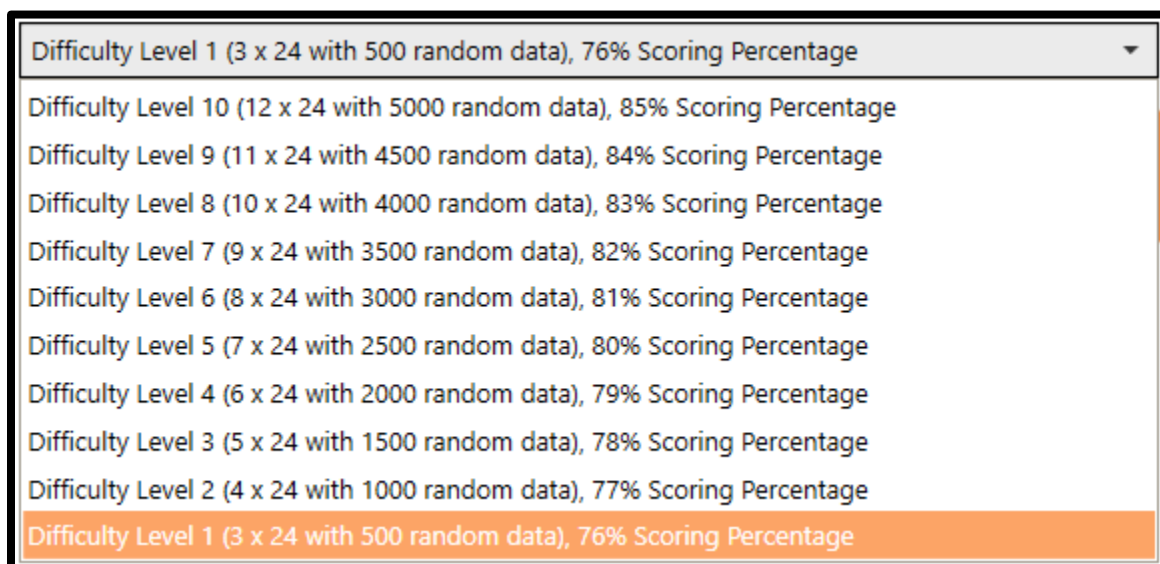
## Running the Simulation

Select what type of Engine to use. RLM and Encog will run in one application while Tensorflow will run in a separate application.\*

Select Engine:

☒ RLM ☐ Encog ☐ Tensorflow

Choose what type of data size you want to use. We have 10 levels of difficulty with varying shelf size, data and score percentage.

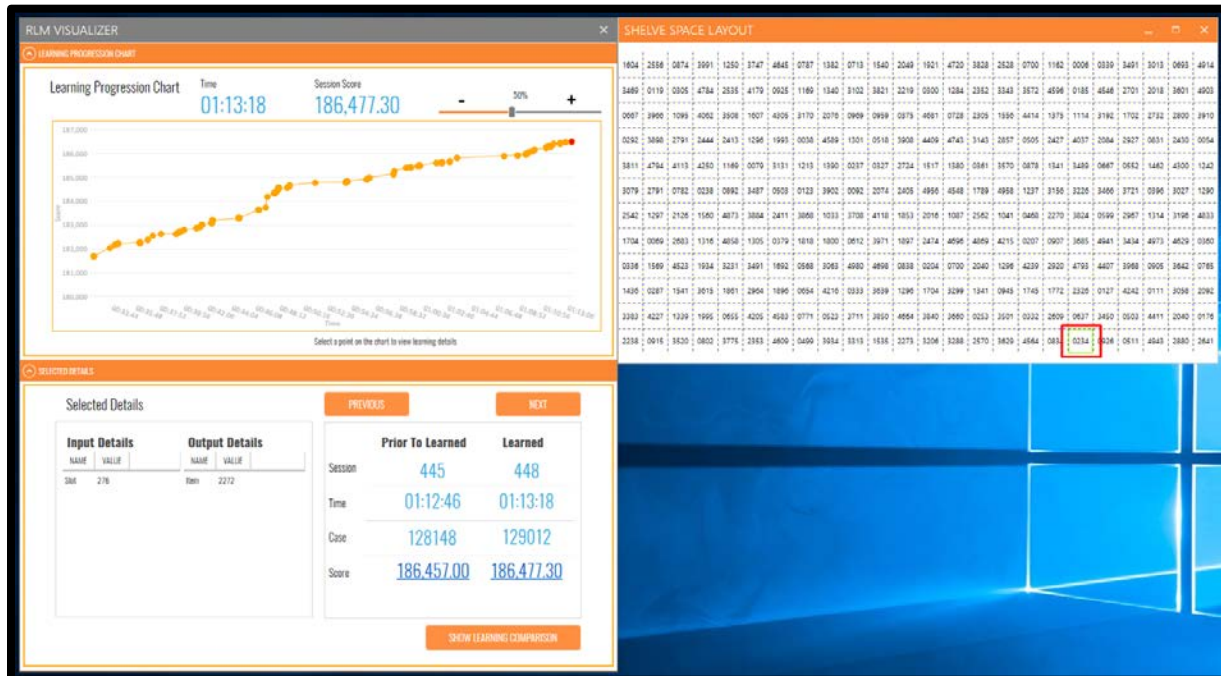


Difficulty Level 1 (3 x 24 with 500 random data), 76% Scoring Percentage
Difficulty Level 10 (12 x 24 with 5000 random data), 85% Scoring Percentage
Difficulty Level 9 (11 x 24 with 4500 random data), 84% Scoring Percentage
Difficulty Level 8 (10 x 24 with 4000 random data), 83% Scoring Percentage
Difficulty Level 7 (9 x 24 with 3500 random data), 82% Scoring Percentage
Difficulty Level 6 (8 x 24 with 3000 random data), 81% Scoring Percentage
Difficulty Level 5 (7 x 24 with 2500 random data), 80% Scoring Percentage
Difficulty Level 4 (6 x 24 with 2000 random data), 79% Scoring Percentage
Difficulty Level 3 (5 x 24 with 1500 random data), 78% Scoring Percentage
Difficulty Level 2 (4 x 24 with 1000 random data), 77% Scoring Percentage
Difficulty Level 1 (3 x 24 with 500 random data), 76% Scoring Percentage

## RLM Visualizer

Data visualization ready

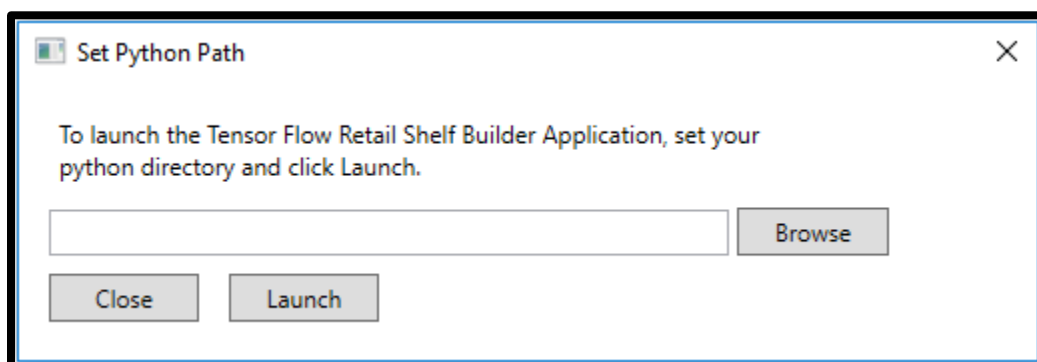
Once the progress bar shows the above status, the RLM Visualizer is ready. Just click the SKU numbers in the Shelf Space Layout window (which is also accessible by clicking on the ML creates shelves space layout process in the flowchart) and the Visualizer will show all the learning events for the RLM.



## \*Running Tensorflow

The Tensorflow version for the Proof of Concept has been made with Python. So at the moment, we're only able to launch the application through Python.

To run the application, click on the Retail PoC Tensorflow desktop shortcut. It will bring the following window.



Install Python in your computer to run Tensorflow. You will need Python 3.5 and some of its libraries installed through Pip:

- pythonnet
- tensorflow
- pypiwin32