MTSI Dashboard Evaluation

First Evaluation Session - November 30, 2020

Quick Intro Video:
https://youtu.be/_vq5HWGfCc4

The Evaluation Process

1. Pre-evaluation Questions

Please respond to these questions as elaboratively as possible before you begin the evaluation process

1. What added-value are you expecting from the system?

2. What are the interesting data that you expect the system to help you explore?

3. How could exploring the data help you meet your business goals?

4. What challenges are you currently facing in analyzing the data observed from the machines?

2. Evaluation

Report Requirements

In this stage, you will interact with the solution here: http://194.47.178.15/mtsiproject/, and note down the errors only. The list of functions are listed in the next four slides.

Describe Two Types of Errors:

1. Crashing errors (Then reload the solution before you proceed).

2. System not functioning **as you expect** it.

Note the following about the errors:

- The task that caused the error.

- Last three tasks you performed before the error appeared.

2. Evaluation

Tasks Checklist

Explore the following functionalities several times with random sequences:

1- Selecting clusters in the Scatter point plots (T-SNE and PCA).

2- Selecting lines in the Parallel Coordinates graph.

3- Interactivity between all sets of graphs

(Possible functionalities in each plot ->)

2. Evaluation

Functions: TSNE & PCA

a. Toolbar appears when you hover cursor over the plot

b. Download a snap of the plot

c. Zoom and pan through the plot

d. Box select points

e. Lasso select points

f. Reset by double-clicking on the graph

2. Evaluation

Functions: Heatmap

a.   Toolbar appears when you hover cursor over the plot

b.   Download a snap of the plot

c.   Zoom and pan through the plot

2. Evaluation

Function: Parallel Coordinates

a. Toolbar appears when you hover cursor over the plot

b. Download a snap of the plot

c. Select sections of the vertical lines (features)

d. Slide the selection along the vertical line

e. Select more than one section of the same line

f. Select sections from different vertical lines

g. Unselect selected section by clicking on it once

h. Move the vertical line to a new position

3. Post-evaluation

Report

Respond to these questions based on your evaluation of the solution:

1- What are the most interesting trends that you have noticed about the data?
2- What are the most valuable functionalities in the system? Why?
3- Which visualizations were the most interesting? Which were the least?
4- Which visualizations were easier to interpret? Which were the least?
5- What is missing? How could the dashboard be more useful to your business goals?
6- Which data features were more important to you? Why?
7- Any final comments?

Please submit the final report by December 11, to:

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THANK YOU FOR YOUR TIME