MTSI Dashboard Evaluation

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Second Evaluation Session - January 31, 2021

The Evaluation Process

1. Evaluation

Report Requirements

In this stage, you will interact with the solution here: http://194.47.178.15/mtsiproject/, and note down the issues. The list of functions are listed in the following slide.

Describe Two Types of Issues:

1. Crashing errors (When an error is encountered, reload the solution before you proceed).

2. Logical flaws or 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.

1. Evaluation

Notes on Plots

Before you proceed to the next, here are a list of notes to keep in mind as you test the solution:

1- The PCA and t-SNE scatter plots indicate clusters of the data. The cluster color was determined by a k-means model against the reduced dimensionality features of PCA.

2- Heatmap values are normalized values of the data. The data in the Parallel coordinates plot (PCP) are the original processed data.

3- The original data is produced in processing the raw data by calculating the distance between the series data and its settings. Thus, for each data point, the temperature values displayed in the PCP is the deviation from the setting. exTorque, exPressure, exSpeed and Total Time are real data as no setting is provided.

1. 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

4- Choosing data parameters/features to plot

5- Training t-SNE model with new settings

* For certain functionalities, please allow the system 5 seconds to update plots.

2. Post-evaluation

Report

Please comment and elaborate on the User Interface and the visualization techniques employed based on your evaluation of the solution. Refer to recommendations provided by yourself in the previous evaluation session. Comment on the improvements made and level of satisfaction. Also, report on your assessment of the time responsiveness of the solution.

Please submit the final report by February 8, to:

mm223wa@student.lnu.se

THANK YOU FOR YOUR TIME