Assessment - 4

CSE 3024: Web Mining Slot: L51 + L52

Online Submission Deadline: 15th October 2020

Web Content Mining, Web Usage Mining

[4 + 3 + 8]

- > Upload your code and result as a single PDF file in VTOP and MOODLE
- > File should contain
 - Question
 - Code
 - Result / Output screen (including contents of all generated files)
- 1. Write a program to show the implementation of agglomerative hierarchical clustering (single, complete and average linkage) using the below mentioned dataset. Show the resultant clusters using graph and dendrogram.
 - Consider Euclidean distance as measure
 - Handle missing values, if any
 - Implement cross validation

https://drive.google.com/open?id=1FGHIK1Ffn6RvxfMFMhBIYr6o7c-JfXCt

The detailed description of the dataset is given in the below link: https://archive.ics.uci.edu/ml/datasets/Absenteeism+at+work

- Write a program to show the implementation of apriori algorithm using web log usage data for web usage mining purpose. (Consider any publicly available web log data to show the implementation.)
- 3. Consider the COVID-19 dataset for India given in the following link.

https://www.kaggle.com/sudalairajkumar/covid19-in-india

Analyze the dataset to cluster various states in India with respect to *number of active* cases, death rate, recovery rate and testing-confirm cases ratio. [Use any **TWO** clustering algorithms of your choice and provide the performance analysis of the techniques used w.r.t. results obtained.]

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