



<b>Course name</b>	Data mining - 14016165-3 / Data mining - 14016313-3
<b>Assignment title</b>	Assignment 3: Association Rules
<b>due date</b>	31-12-2020 (Week 18).
<b>Assignment weight</b>	20%

**Please perform the following tasks:**

Stage	Task 1
<b>Downloading the Dataset</b>	<ol style="list-style-type: none"> <li>1. Choose a transactional dataset which is suitable for association rule analysis problem from the UCI Machine Learning Repository or from any other dataset repositories.</li> <li>2. Download the selected dataset – you are required to provide a link to the download page for your selected dataset.</li> <li>3. Describe the dataset and the data mining task.</li> </ol>
<b>Data Exploration</b>	<ol style="list-style-type: none"> <li>4. Display the number of instances.</li> <li>5. Display the number of attributes.</li> <li>6. Display a statistical summary for all the attributes.</li> </ol>
<b>Data Preprocessing</b>	<ol style="list-style-type: none"> <li>7. Check whether the selected dataset has any data quality issues and choose suitable strategies to deal with any issue (if exists).</li> </ol>
<b>Applying Association rule analysis</b>	<ol style="list-style-type: none"> <li>8. Generate Rules using Apriori Algorithm</li> </ol>

**Important notes:**

- This an individual assignment.
- You need to use the Jupyter Notebook to perform the all the required tasks.
- The ipynb file name should be in the following format: (first name)\_(last name)\_classification.ipynb for example Majed\_Farrash\_classification.ipynb
- By the due date, you must submit your ipynb file using the blackboard.