

## Targil 2

Submission until 31/May/2020

The goal of this exercise is to implement a rule based machine learning algorithm a weakened version of Associative rule learning algorithm. [link](#)

What we are trying to implement is similar to google feature of related searches.

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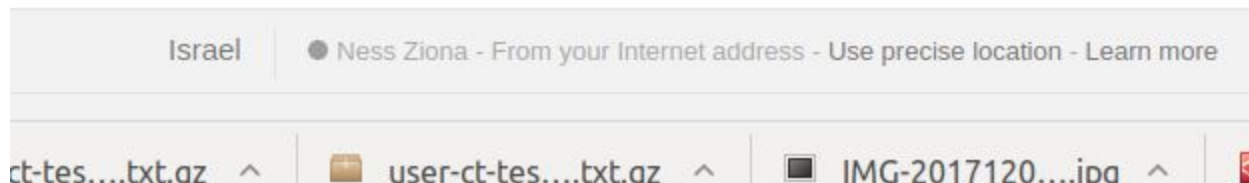
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Read this article *Using association rules to discover search engines related queries*

According rule associative rule learning algorithm.

Given pair of ( user id , search query)

Discover related search queries.

For query  $S_x$  show  $\{S_x\} \Rightarrow \{S_y\}$  with confidence  $C_{xy}$  using associative rule learning algorithm.

1. Implement the algorithm and run it over search queries dataset the output should be  $S_x$  ,  $S_y$  , confidence  $S_x \Rightarrow S_y$  with confidence
2. Save the output in a files
3. Prepare a document that explains the workflow of the algorithm.
4. Run the algorithm with 3 different confidence 0.6 / 0.8 / 0.9
  - a. Write the amount related queries for each confidence
  - b. Look for 3 interesting relations found in the date set
5. External library **is not** allowed.

A dataset for the algorithm can be found here [link](#)