



Eats4Life Recommendation

Request for Proposal

RFP#: DM – F2.H1

Title: Association Rules for Eats4Life

Closing Date and Time: October 11, 2024 @ 5:00 PM

Eats4Life Recommendation: DM – F2.H1

Background and Purpose:

By responding to this RFP, the proposer agrees that s/he has read and understood all documents within this RFP package.

Submission Details:

Responders to this RFP should supply:

- A business report up to 5 pages (not including cover page or table of contents), including any supporting plots and tables
- The commented code (in a separate file) used to produce the results

The report should address all points described in the “Objective” section below and should be submitted electronically through Moodle by 5:00 PM on October 11, 2024.

Objective

Eats4Life would like to update its menu to include wine suggestions with each of its main entrees (defined by the meat selection). The owner would like to take a Data Analytics approach and explore data he collected over the past several years on main courses (meat) and wine that was ordered with it. Eats4Life is open to listing more than one wine for each main entree, but only if the data supports it. The scope of services requested include:

- Summary information on the main entrees (meat)
- Wine suggestion(s) for **each** main entree along with supporting information as to why this (these) wines are suggested for the entrée (if you have no suggested wine for a given entrée, provide information as to why this is your suggestion)
- Any other information of interest in terms of customer order habits

Data provided

The dataset orderData.csv has three columns:

- **orderNo** – identifies each table/party that sat at the restaurant
- **seatNo** – indicates which seat at the table ordered each meal
- **item** – the item that was ordered

The data has been cleaned, so that each order contains three items per individual: a meat, a side and a wine.