



NATIONAL RESEARCH
UNIVERSITY

Ordered Sets In Data Analysis

Big Home Work: Lazy Learning

Frank Acquaye

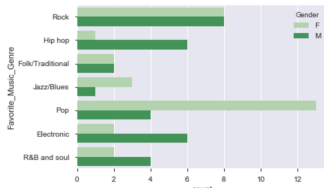
`fakvey@edu.hse.ru`

`http://acquayefrank.github.io/`

National Research University
Higher School of Economics (Moscow)

December 10, 2019

Can we tell people's gender based on their preferences. Since gender is determined by society this might be difficult. e.g. Among my circles in Ghana pina colada may be considered feminine whereas Hennessey is considered masculine.



I did a bit of data exploration so I would have a better sense of how to implement my aggregation function. But it wasn't that helpful since most of the attributes differed by one or two line items. But after finishing I believe this particular graph was more informative than I thought.

Nothing to see here. It's all categorical data

$$\left| \frac{\text{Supp}_F(P)}{|F|} - \frac{\text{Supp}_M(P)}{|M|} \right| \geq 0.2$$

- Predicts 8/12 correctly for a single attribute
- Generalized it for multiple attributes but still Pop stood out
- Yet to add F1 Score, Precision and Recall and perhaps Cross Validation
- Possible tests with other data sources