STA663 Statistical Computation Final Project

Implementation of the Indian Buffet Process

Christine P. Chai

1   Instructions

State the research paper you are using. Describe the concept of the algorithm and why it is interesting and/or useful. If appropriate, describe the mathematical basis of the algorithm. Some potential topics for the backgorund include:

- What problem does it address?
- What are known and possible applications of the algorithm?
- What are its advantages and disadvantages relative to other algorithms?
- How will you use it in your research?

2   Code Structure and Simulated Data

3   Testing

4   Optimization

4.1   Remove Redundant Calculations

4.2   Cythonized Code

5   Comparative Analysis

5.1   Chinese Restaurant Process

5.2   Another Matlab Version Online

5.3   Another Python Version Online

6   Results

Table 1 shows a simple version of tables.

7   Conclusion

Write your conclusion here

dog	cat
2.0000	3.0000
4.0000	7.0000
5.0000	8.0000

Table 1: Our top noise discoveries.