

Peer Review for Yinan (Cheese Dataset)

April 13, 2017

- Overall you did good work, I have some suggestion for improvement.
- For coding style, I suggest adding more spaces, for example around ‘=’. I also suggest consistent indentation for code in the same block, for example in cheese.R lines 63-70 and lines 87-97.
- We I run until line 59,

```
cheese$pd=cheese$logprice*cheese$disp
```

I got a warning message

```
* not meaningful for factors
```

the I got an error in running the Gibbs sampler because cheese\$pd is all “NA”. That is because in cheese.R line 41, you did

```
cheese$disp=factor(cheese$disp)
```

which changes disp to a factor. So I suggest creating a new column instead of overwriting one, for example:

```
cheese$factor_disp=factor(cheese$disp)
```

- In Gibbsampler.R, I like how you do most of the computation in matrix/vector form, which is more efficient (than mine). Printing out the samples in each MCMC iteration is useful for debugging but can slow down your code a bit. Also, more comments would be helpful. For example, you can add comments on the meaning of the input to the ‘gibbssampler’ function.
- You use 500 burn-in iterations and you have a lot of ‘500’ in your code, I think using a variable for that is better.
- For your written solution, your model choice is very reasonable and the presentation is clear. More details on the derivations of the conditional distributions will be helpful.