1. Logistic Regression: Training stability

TBC

1. Model Calibration
   1. Prove calibration condition holds true for LR over range (a, b) = (0, 1)

Vectorize: , with and

Use the fact that we include a bias term: we got all 1s for the first column of :

* 1. TBC

1. Bayesian Logistic Regression and weight decay

Prove that given:

Prove: suppose then from definition of :

Yet from the definition of , , we get:

Which contradicts and . Proved.

1. Constructing kernels
2. Kernelizing the perceptron (learning theory)
3. Spam classification