

Name: _____ SPIRE ID: _____

CS 485, Fall 2026

Exercise #3: Math and probability!

Use Bayes Rule to calculate the following. Clarify what the prior and likelihood terms are.

A forum has posts where each is about either Pikachu or Bulbasaur (only one or the other). You know that when people are talking about Pikachu, they say “awesome” with probability 300 out of 1 million, but when talking about Bulbasaur, they say “awesome” with probability 200 out of 1 million. You choose a post at random, and look at one of its words at random, and see that word is “awesome”. What’s the probability the post is about Bulbasaur?