McMaster University

MECHTRON 4AX3

Assignment 2

Bayesian reasoning

To design a "smart" user interface you try to predict what a user will do next in an interactive system. Observing old data, you determined that 51 times out of 100 the user chooses A. In a session with a user, the user chose A 8 times in a row. What is the probability that his next choice is B. (work this out by hand).

FIND THE MAXIMUM

Finding the (local) maximum in a sampled signal should be done using interpolation. Given the following template code implement the procedure **find_max** a quadratic LLS to find the maximal value of the data points generated at the markde **HERE**

Submit your code on paper (ONLY THAT ONE PROCEDURE YOU HAVE TO IMPLEMENT !!) Print also the output of 10 runs, so we can see that it works.