

Objective

This program once run, takes user input to calculate the probability of students' exam performance depending on the probabilities of their attributes.

Implementation Details

`calculate_probability_of_above_avg(total_above_average)` calculates probability for each occurrence of $p(x \mid \text{given above average})$ by dividing by the average of above average math scores. `x_given_above_avg(row, mean_of_math_scores)` counts all occurrences of x , given the above average score. The `run_bayes()` method runs all the methods within the file.

Running the program

The program must be run by either executing “python final_project.py”, or executing “python final_project.py -help” for instructions.