

Criterion E: Evaluation

Word Count: 359

Meeting Success Criterion¹:

Number	Success Criterion	Met	Clients Comments
1.	When the backend file is launched, it should be ensured that during optimization function, for every iteration the cost value should always decrease until it reaches convergence or local minimum and not increase.	Met	When the backend.exe file is launched, for every college in each iteration, the cost function continually decreases and no error is displayed.
2.	Automatically load the weights (Theta1 and Theta2) to be used for calculation based on user's selection of college, standardized test type and high school exam score type.	Met	Accurate path of weights is loaded as seen in the log file for each user's input data.
3.	Automatically load list of majors (drop-down list) to choose choice of major based on user's selection of college	Met	Based on the college chosen, the majors are listed to choose. Majors not in the college are therefore do not appear.

¹ Appendix: Tasks Completed

4.	Automatically load the menu to choose In-State/Out-of-State Status based on the college selected	Met	When a chosen is a private college, the radio-button to choose the residency status does not appear.
5.	User should be able to input appropriate values for SAT/ACT Score, Percentage, and IB Predicted Scores.	Met	In case of null or erroneous entries, popup messages displayed
6.	Validate user input for each parameter and display appropriate error in case validation returns false.	Met	Abnormal data entry is restricted
7.	Based on inputs, calculate and display the probability of securing admission into user's choice of college.	Met	Pop-up message is displayed showing the probability of admission based on the inputs entered and college chosen

The application works as expected.

Feedback from Client:

Improvement(Feedback)	Description
Aesthetic interface	The purpose of the program was focused on functionality, so not much thought was given to the appearance. The client asked for a more appealing interface, which would make it more pleasant to use the app.
User Guide	The client would like a proper user manual to be printed so that in case other admission counselors are interested in the application, they can use it and so it can run with ease on their systems.

Scope for further development

The client was satisfied with the result that I provided. After the application demonstration, the client gave me feedback and we discussed how the program can be modified and expanded. After a lengthy conversation, we concluded that the following extension could be made:

- Another functionality could be added to the GUI Program that would allow the client to choose any 2 mentioned parameters like standardized test type and high school exam score type, or standardized test type and residency status, and would thus display a scatterplot graph of admitted and not admitted students based on the selected parameters and choice of college.

- Another functionality could be added to the GUI Program that would allow the client to store the probability of admission calculated for the colleges for each student using a suitable DBMS and finally update which university the student enrolled at. This would allow the client to recognize the pattern of enrolment in the long run and to analyse the most popular university choices within the school.