

# **To EV or Not Project Report**

## **Problem Statement and what we are trying to solve**

We are trying to develop a web application that would give a customized report by taking into consideration various factors that would affect a customer's experience with respect to EV. This would give out a suggestion to the user and help them clear their confusion if they are making the right decision.

Buying a car is subjective to everybody and the factors one should consider based on their use case. We create a questionnaire which is based on important factors that would affect EV and the questions are but not limited to

What is the primary purpose of the electric car  
What is the amount you are willing to spend on the car  
Where does one live

Technologies we used to develop this are HTML, CSS, Javascript, Django, Postgres .These technologies would help us develop a webpage and have some sort of database connectivity to take inputs from the users, process their inputs and give out a customized report.

We developed a web application that takes user input and gives out a customized report as a javascript alert.

## **My part of the project**

- 1) Created About, Decision Factors and Customized report HTML and CSS pages.
- 2) Decided on the decision factors and the flow of the project
- 3) Built a logic that we are supposed to implement to process data
- 4) Helped and coded the java script logic to alert the user with a suggestion.

## **Approach to solve the problem**

Our approach was to consider few generic yet important factors, process the data and give a report to the user. We thought this approach was better since it gives the user a sense of understanding as to what our product does and what factors are being considered before we give them a customized output. There could be better approaches to solve this problem by taking more inputs from the user but for a pilot project, we thought this is a feasible approach.

## Step by Step Instructions to launch the application

- 1) This project is currently hosted on [cs.uml.edu/~myeddana](http://cs.uml.edu/~myeddana)
- 2) Navigate to the above listed URL'S and navigate to "CUSTOMIZED REPORT" and answer questions to get a customized report.
- 3) We plan to change this in the coming days and host it on a different platform.

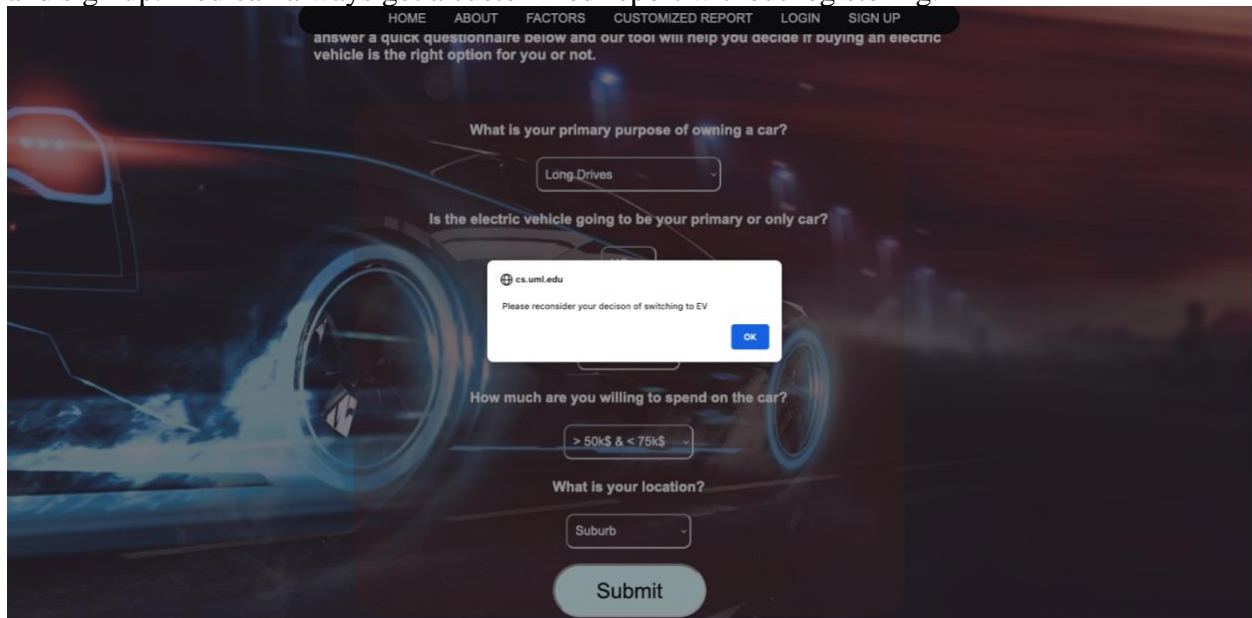
## Instructions on how to use the software

**ABOUT:** This page explains what the project is about and gives you enough information about electric vehicles – The advantages and disadvantages of an electric vehicle.

**Decision Factors:** This page contains the decision factors that our tool considers giving you a suggestion if EV is meant for you or not.

**Report:** This is the actual page where you are going to get a suggestion. You need to answer the questionnaire and our backend processes your answers and hands out a suggestion. – The most important page of the project.

**Login/ Signup:** Although, this is self-explanatory, this is not mandatory for every user to register and sign up. You can always get a customized report without registering.



The screenshot shows a web application interface for a questionnaire. At the top, there is a navigation bar with links: HOME, ABOUT, FACTORS, CUSTOMIZED REPORT, LOGIN, and SIGN UP. Below the navigation bar, a header text reads: "answer a quick questionnaire below and our tool will help you decide if buying an electric vehicle is the right option for you or not." The main content area contains several questions with dropdown menus for answers:

- Question: "What is your primary purpose of owning a car?"  
Answer: "Long Drives" (selected)
- Question: "Is the electric vehicle going to be your primary or only car?"  
Answer: "Primary" (selected)
- Question: "How much are you willing to spend on the car?"  
Answer: "> 50k\$ & < 75k\$" (selected)
- Question: "What is your location?"  
Answer: "Suburb" (selected)

At the bottom of the form is a "Submit" button. A modal dialog box is open in the center of the screen, displaying the text: "Please reconsider your decision of switching to EV" with an "OK" button.