### UTDiscovery Weekly Report & Time Log

| **Weekly Report Number** | 8 |
| --- | --- |
| **Reporting Period** | \_10\_/\_20\_/\_23\_ to \_10\_/\_27\_/\_2023\_ |
| **Group Number** | 2 |
| **Project Name** | xEstimate API and ALgorithm improved |
| **Mentor/Faculty Advisor** | Dr. Noirrit Chandra |
| **Project Team Members** | Marcos Munoz, Mehedi Toufiqe, Yaseen Mohammed, Sayema Rahman |

**Weekly Report**

1. Tasks Outlined in Previous Weekly Progress Report

* Finish putting car features from webscrapping into an excel sheet and then use LLM to get more features from car description.
* Possible start on model to predict price.

1. Progress Made in Reporting Week (Limit your write-up to no more than two page)

* We fixed our datascraping code to extract all the desired features from hundreds of cars found in the classiccars website.
* We made an excel sheet that has around 9000 car observations that have majority of the features that we are looking for. We will clean this dataset and test it with the first testing model that we will build this week.

1. Difficulties Encountered in Reporting Week (Limit your write-up to no more than one page)

* We still had difficulties with extracting the desired features and getting the desired number of cars into the excel sheet.

1. Tasks to Be Completed in Next Week (Outline the tasks to be completed in the following week)

* We will have built our first model (either linear regression or logarithmic) and will have tested on our classic cars dataset to try and predict the car price.
* Will use the GPT API-based token model and the LLama2 LLM method to extract desired data from the car description column in our new classic cars data set and we will try and expand this dataset to more closely resemble AUTIX’s original dataset that was provided to us.

**Time Log**

1. Teams Meeting.

* Description: Met on Monday, 7:00-8:00 pm, Tuesday 4:00-5:00 pm and Wednesday 2:30-3:30 pm to discuss progress done on previous week. We discussed our plan for the next couple of days that outlined fixing the webscraping code and making the excel sheet following the provided example from Andrew.
* Students: Marcos Munoz, Yaseen Mohammed, Sayema Rahman
* Dates:10/23, 24, 25/2023
* Hours:1 hour each
* Other:

1. Client Meeting: Wednesday October 25th from 3:30 - 4:30 pm through Zoom

* Description: We meet with AUTIX to report on our progress made since our last meeting and they gave us our new set of task for the upcoming week and also some feedback which was good.
* Students: Marcos Munoz, Mehedi Toufiqe, Yaseen Mohammed, Sayema Rahman
* Dates: 10/25/23
* Hours: 1 hour
* Other:
* Who didn’t attend the meeting with client:

1. Faculty Advisor Meeting.

* Description: We talked with our advisor about the progress we had made and what we plan to do for the upcoming week. We asked him for advice on building our first testing model with our new training dataset from the classic cars website. He told us to start with a logistic regression model and go from there. Also to check our variables and do some research on one-hot encoding and ordinal categorical variance.
* Students: Marcos Munoz, Yaseen Mohammed, Sayema Rahman
* Dates:9/17/2023, 4:00-4:30 pm
* Hours: 30 minutes
* Other:
* Who didn’t attend the meeting with FA: Mehedi Toufiqe

1. Solution Development.

* Description(optional): Marcos and Sayema worked on the for loop code that will get the target car features from each car and putting the cars and their features into a data frame and then exporting it. Yaseen was able to help with some of the code errors and produce the testing data set that we needed to present to the sponsor and that we will use to test our model.
* Students:Marcos Munoz, Mehedi Toufiqe, Yaseen Mohammed, Sayema Rahman
* Dates:10/13 - 10/20
* Hours:9
* Any progress? Yes
* Other:

1. Documentation.

* Description: The group worked on fixing the webscraping code in Python and making the desired excel sheet.
* Students:Marcos Munoz, Mehedi Toufiqe, Yaseen Mohammed, Sayema Rahman
* Dates:10/20 - 25/23
* Hours: Teammates worked on their own and were able to meet and work on the code on for some time on Monday, Tuesday and Wednesday.
* Other:

1. Preparation Slides., if applicable. N/A

* Description(optional)
* Students:
* Dates:
* Hours:
* Other: