ARTIFICIAL INTELLIGENCE

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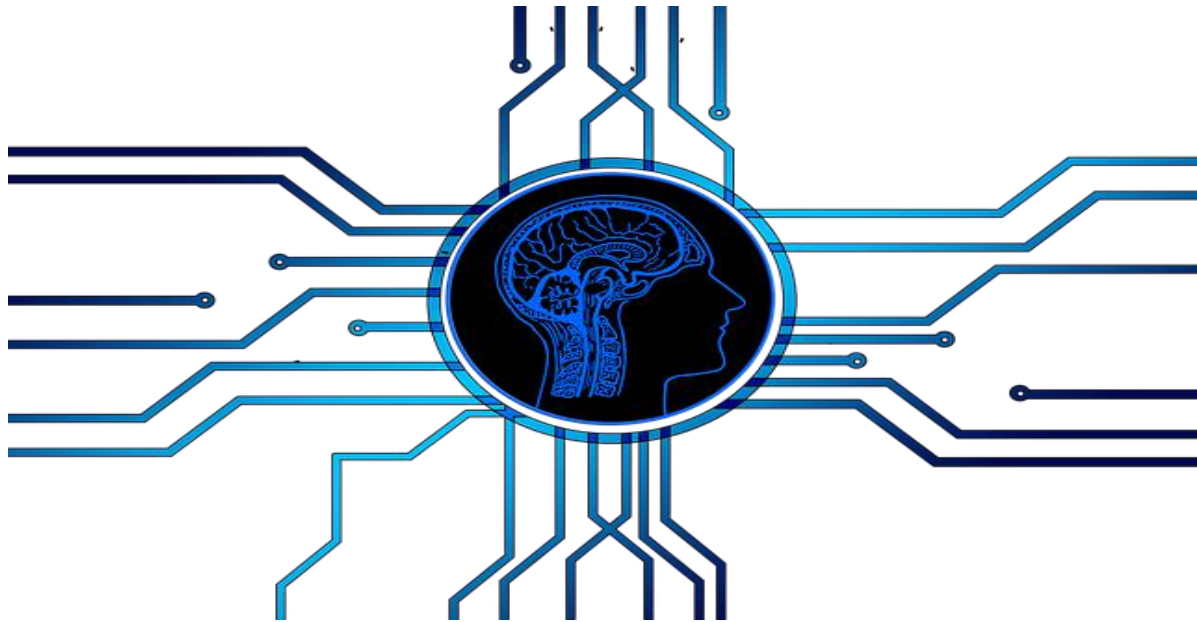
SIMPLE NAVIGATOR FOR LPU

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LOVELY PROFESSIONAL UNIVERSITY

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YOUTUBE LINK :

https://www.youtube.com/watch?v=hgBuqVpJrXU

GITHUB LINK for other Documentation :

https://github.com/gkr5413/SIMPLE-NAVIGATOR-FOR-LPU

1.Introduction

Navigation is a field of study that focuses on the process of monitoring and controlling the movement of a craft or vehicle from one place to another. The field of navigation includes four general categories: land navigation, marine navigation, aeronautic navigation, and space navigation.

It is also the term of art used for the specialized knowledge used by navigators to perform navigation tasks. All navigational techniques involve locating the navigator's position compared to known locations or patterns.

Navigation, in a broader sense, can refer to any skill or study that involves the determination of position and direction. In this sense, navigation includes orienteering and pedestrian navigation.

2.Objectives

The following are the objectives of the project of Simple Navigator for LPU :- The basic output of the project is that it should be able to predict out the accurate distance between the starting point to ending point and gives a time to reach out your destination . this project navigates the correct place in the University . and also easy to use so that you find your route from anywhere to anywhere inside the campus.

3. ==Methadology==

Packages used in this Project :

GMaps : Stands for google maps it helps to add / delete the Places in the Map we also used the GMaps Dataset in Order to Configure/figure the Directions .

Sys : This is the inbuilt package in Python (we have to import) it helps us to use the Clipboard in Our System (Command Line Argument).

Web-browser : Web browser is also a package in Python it is used when we want to directs our output into the Browser we can go any Website by just running our Program .

Syntax : webbrowser.open('www.google.com',+A)

It will Open the Google Search In this way we can go through any Website .

Pyperclip : Pyperclip's major application in Python is to use the Clipboard , whenever we are running the Program it will Search for the Last copied word in Clipboard and it will Search that .

For Suppose we Copied "Lovely Professional University" this will stored in a Variable named A , It will directly Searches about the LPU .This Logic we were used to Seach Our Location .

API : **API** stands for application program interface. A programmer writing an application program can make a request to the Operating System using **API** (using graphical user interface or command interface). It is a set of routines, protocols and tools for building software and **applications**.

Excel : In this Project we used Excel files to Extract the Longitudes and Latitudes of Locations in LPU .
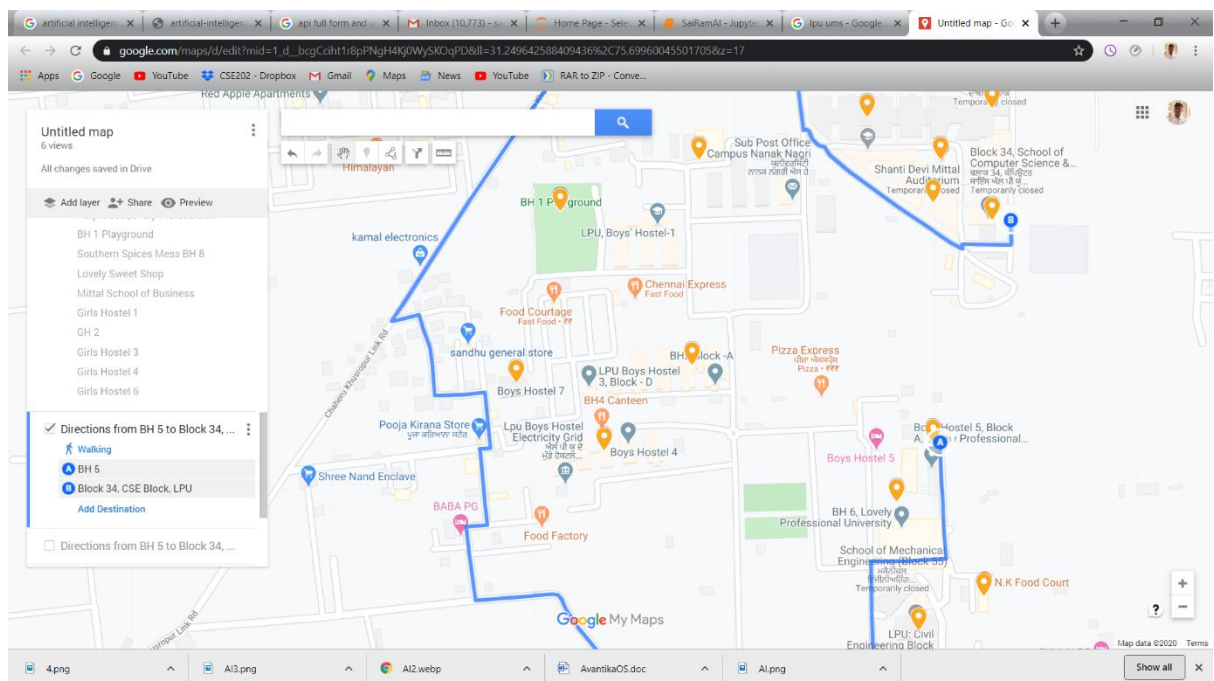
4.Results
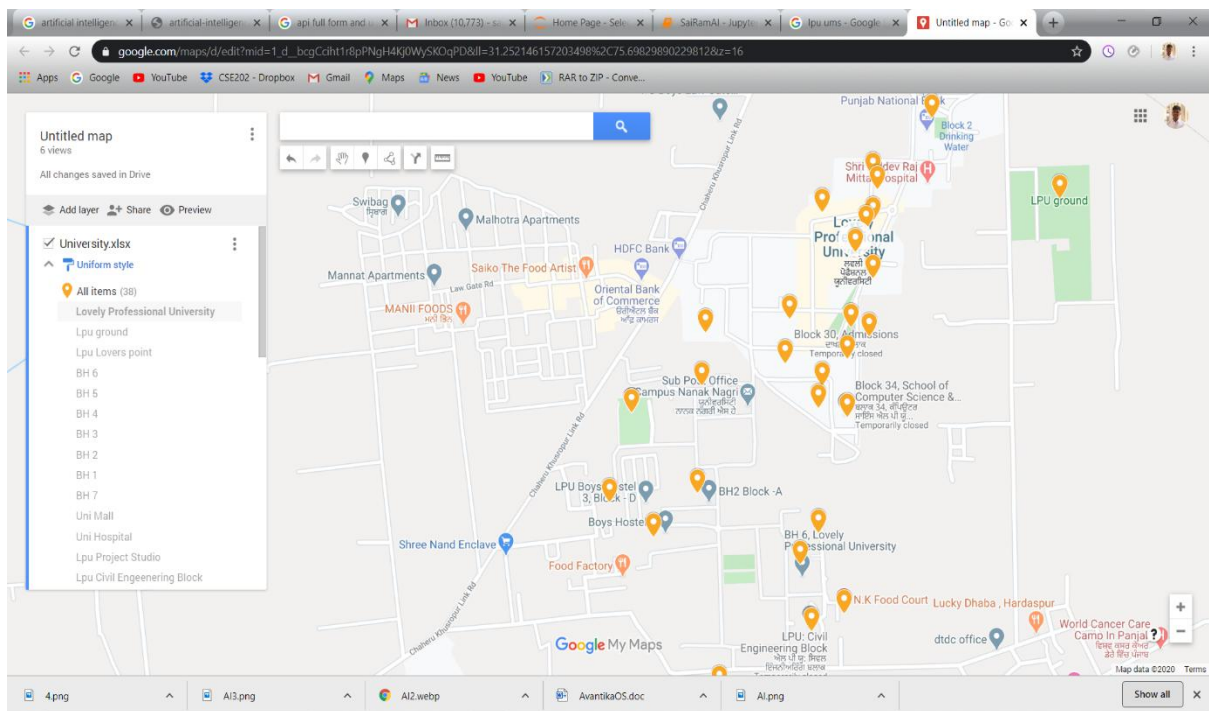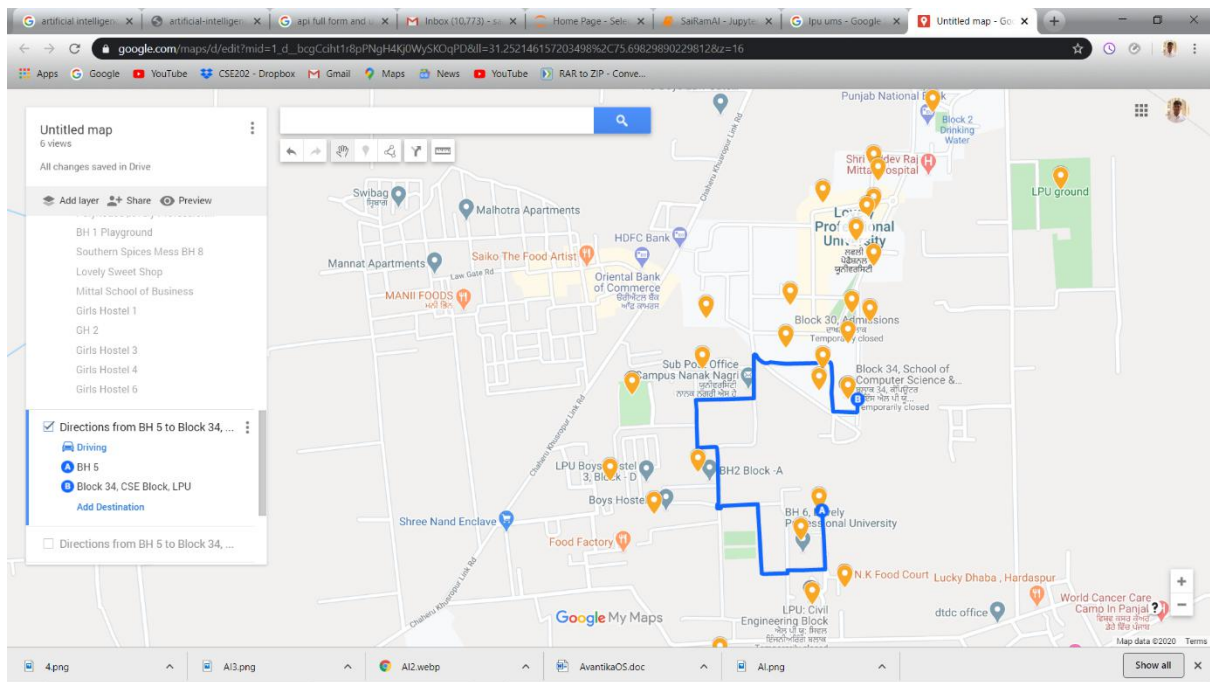
38 Points (Locations) in Campus

Directions from BH-5 to CSE Block

Mode = Car (Driving)

Directions of Same Route by Walking

	University	Lat	Long
2	Lovely Professional University	31.2551	75.705
3	Lpu ground	31.2563	75.7106
4	Lpu Lovers point	31.2536	75.7032
5	BH 6	31.2481	75.7035
6	BH 5	31.2488	75.704
7	BH 4	31.2487	75.6995
8	BH 3	31.2492	31.2492
9	BH 2	31.2497	75.7007
10	BH 1	31.2515	75.6989
11	BH 7	31.2495	75.6983
12	Uni Mall	31.2558	75.7055
13	Uni Hospital	31.2581	75.7071
14	Lpu Project Studio	31.2551	75.705
15	Lpu Civil Engeenering Block	31.2466	75.7038
16	Sports Centre Lpu	31.2509	31.2509
17	Parking Lpu	31.2532	75.7054
18	Block 30, Admissions Lpu	31.2527	75.7048
19	Block 34, CSE Block, LPU	31.2514	75.7048
20	Food Factory LPU	31.2985	75.5884
21	School of Agriculture Lpu 26th Block	31.2526	75.7031
22	BH 1 Playground	31.2515	75.6989
23	Shanti Devi Mittal Auditorium	31.2521	75.7041
24	Lpu Main Library	31.2516	75.704
25	Late Mrs. Mittal Samadhi	31.2534	75.7049
26	Baldev Raj Mittal Park	31.2589	75.7069
27	Main Gate Security Office	31.2602	75.7075
28	N.K Food Court	31.247	75.7047
29	LPU PROTECTED CULTIVATION	31.2449	75.7012
30	Polyhouse ,lovely Professional University	31.2453	75.7013
31	BH 1 Playground	31.2515	75.6989
32	Southern Spices Mess BH 8	31.2521	75.7008
33	Lovely Sweet Shop	31.2556	75.7053
34	Mittal School of Business	31.2545	75.7055
35	Girls Hostel 1	31.2568	75.7055
36	GH 2	23.2082	72.6359
37	Girls Hostel 3	31.256	75.7041
38	Girls Hostel 4	31.2565	75.7056
39	Girls Hostel 6	31.2533	75.7009

Information of Locations in Longitudes and Latitudes

5.Conclusion

It is a basic assumption-based software. it shows the starting point and the destination point from where the user would wish to go the steps are calculated and relatively the Time . here it calculates the distance in 3 modes By foot (B) ; Train (T) ; Bike (k)

Car (c) .

By the way of what user needs they proceed with the option

After Clicking the Train Option in the Navigation System You will redirected to the Google Train Search Sheet .

6.Future Scope

In the Present Scenario only we are merely depends on Google Maps to Travel from one Location to Another , the GMaps Algorithm updating and changing itself for every minute and hour depends upon the user inputs and the Conditions.

So In future means in the Upcoming Years Maps and Navigators will Play a key role in the life of Huma Beings .

This Project helped us to learn the Basics in Navigation System like GMaps(Package),API's etc. It will definitely helps us in Future for further Purposes .

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