

ARTIFICIAL INTELLIGENCE INT - 404

**SIMPLE NAVIGATOR FOR LPU .**

**END TERM REPORT**

Submitted by ,

Name of the Candidates

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**Student Declaration**

This is to declare that this report has been written by **Shreyash**  and **Sandeep** . All information included from other sources have been Sucessfully acknowledged.

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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](https://en.wikipedia.org/wiki/Term_of_art) used for the specialized knowledge used by [navigators](https://en.wikipedia.org/wiki/Navigator) 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](https://en.wikipedia.org/wiki/Orienteering) and pedestrian navigation.

* 1. **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.

**2. Project Description**

When we are in an unknown place and also new to the place it would be difficult for us to find the route from one place to another place . so the navigation is used to find the place from a starting point to the destination project . Here inside the lpu there are many places which would confuse the people to find their routes this navigation is based on longitude and latitude based it identifies the exact position of the person and gives the walkable route in terms of steps . so by using this it would be easier to walk in from any place to any place there would no difficulty .

**2.1 Assumptions of the project : -**

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

**2.2 Modules Used:-**

In order to complete the project the following modules are used: -

* **Excel** : To extract the Longitude and Latitude.
* **Google Maps** : - Google Maps is a web mapping service developed by Google. It offers satellite imagery, aerial photography, street maps, 360° interactive panoramic views of streets, real-time traffic conditions, and route planning for traveling by foot, car, bicycle and air, or public transportation.
* **API Key** : An application programming interface **key** (**API key**) is a unique identifier used to authenticate a user, developer, or calling program to an **API**. However, they are typically used to authenticate a project with the **API** rather than a human user. Different platforms may implement and use **API keys** in different ways.
* **Tkinter** : - Tkinter is Python's de-facto standard GUI (Graphical User Interface) package. It is a thin object-oriented layer on top of Tcl / Tk.

• **Using the datasets** : - NumPy is a Python package which stands for 'Numerical Python'. It is the core library for scientific computing, which contains a powerful n-dimensional array object, provide tools for integrating C, C++ etc. It is also useful in linear algebra, random number capability etc. It is used for predicting out the output from a particular dataset.

**BONAFIDE CERTIFICATE.**

Certified that this project report “ **Simple Navigator for LPU** .” is the bonafide work of “ **Shreyash** and **Sandeep** ” who carried out the project work under my supervision.

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