Route Optimization for Routine Commute

Organization Name: Allstate Solutions Pvt. Ltd.

Overview:

Some individual traverses through a certain route every day from a Source to Destination stops at certain points on the way. Predicting the places and mapping them to calculate the time spent in the traffic signals, Jams and suggest him/her with a the most efficient path for that day covering all the points of interests.

The points of interests can be drop points in case of a cab picks up an employee for work or an individual driving from office to home and wants to buy grocery en-route and drop a friend**.**

Current Challenges:

When the Driver has multiple stop locations while travelling from a Source to destination, it is generally a major challenge to map a optimal path due to the factors like unpredicted traffic jam and road closure. This results in rerouting every time to bypass a blocker. This leads to unnecessary waste of time. Instead, if the system can machine learn the path traversed every day, find the Geo spatial points of the places visited, and suggest the best path it will lead to saving lot of fuel, time and space.

For Example:

An individual driver who is driving to office every day and return home. Every Wednesday he picks up grocery, on Monday he gets his vehicle refueled and picks up his son from Arts school in the evening while driving back home.

Business Requirements:

The business need is as below: -

1. The daily office goer who wants an optimal route so that he can reach his destination early
2. Company/school transport which has regular drop and pick up points want to know which is the best route to follow every day
3. Delivery vans which deliver the goods to retails shop on a routine basis
4. Delivery vans which pickup/drop the package for the last mile connectivity