**AIML PROJECT**

PROJECT TITLE: Travel estimator in smart cities using machine learning.

**SECTION-7**

**BATCH-12**

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**Problem Statement**: With the advancement in technology everyone wants quick and best solution even in travel estimation, one major thing that can be considered is providing location-based recommendations for restaurants, hotels, and food places based on ratings in real time using machine learning. Dynamic updates to be done as user changes the travel direction providing the best choices available

**Explanation**: Main aim of this project “Travel estimator in smart cities using machine learning” includes being a guide to users while they move through the city , this machine learning system based on their location and their moves will help suggesting the popular restaurants, food places and hotels .This even helps in improving comfort and convenience of individuals lowering their efforts to manually searching for them, also leading to smarter and more efficient urban living.

**Algorithm**:

**Collection of Data**: To gather real- time GPS data which helps know users’ exact location and direction of movement, also gather data of restaurants, hotels along with rating and other factors like cuisine, budget etc

**Preprocessing**: Calculation of user’s current location and include the places only within certain radius of their current location

**Machine learning model**: A machine learning model decision trees or neural networks that predicts the most appropriate recommendation for the user

**Feedback**: Feedback loop by users allow in improving the accuracy of the model over time, Regular updates and retraining the model with latest data and adapting to changes.

**REFERENCES:** <https://www.sciencedirect.com/science/article/abs/pii/S0968090X15001631> <https://ieeexplore.ieee.org/abstract/document/7926913>