Project Initialization and Planning Phase

Date	9 July 2024
Team ID	SWTID1720369851
Project Title	Ecommerce Shipping Prediction
Maximum Marks	3 Marks

Project Proposal (Proposed Solution) template

In today's fast-paced ecommerce landscape, customers expect not only a wide variety of products but also reliable and timely delivery of their purchases. Delivery delays or inaccurate delivery estimates can lead to customer dissatisfaction, negatively impacting their overall shopping experience and brand loyalty.

Project Overview	
Objective	To create an application to predict the shipping details of any order.
Scope	To get accurate and real time estimation of the delivery date.
Problem Statement	
Description	Customers often face uncertainty and frustration due to inaccurate or delayed delivery estimates. These issues can stem from various factors such as traffic conditions, weather, and logistical challenges. Additionally, the lack of real-time updates exacerbates the problem, leaving customers in the dark about their order status.
Impact	Enhanced Trust and Satisfaction, Improved Transparency and Streamlined Shopping Experience.
Proposed Solution	
Approach	I am going to use machine learning to solve this type of problem, starting with the data collection and preprocessing of the data, I will be using different models to get the highest accuracy possible.
Key Features	After executing this I will be able to get Accurate Delivery Estimates, Real-Time Updates and Seamless Integration.

Resource Requirements

Resource Type	Description	Specification/Allocation
Hardware		
Computing Resources	CPU/GPU specifications, number of cores	Apple M1, 2 x NVIDIA V100 GPUs, AMD Ryzen 5/7, intel core i5/i7
Memory	RAM specifications	8 GB/ 16GB
Storage	Disk space for data, models, and logs	256 GB/ 512GB/1 TB SSD
Software		
Frameworks	Python frameworks	Flask
Libraries	Additional libraries	Numpy, pandas, scikit-learn, matplotlib, seaborn, scipy
Development Environment	IDE, version control	Jupyter Notebook, Git
Data		
Data	Source, size, format	Kaggle dataset, (10999, 12), csv