



Project Initialization and Planning Phase

Date	15 June 2024	
Team ID	SWTID1720434734	
Project Title	Ecommerce shipping prediction using ML	
Maximum Marks	3 Marks	

Project Proposal (Proposed Solution) template

Ecommerce shipping prediction is the process of estimating the whether the product reached on time. which is based on various factors such as the origin and destination of the package, the shipping method selected by the customer, the carrier used for shipping, and any potential delays or issues that may arise during the shipping process. Machine learning models can be used to make accurate predictions about shipping times based on historical data and real-time updates from carriers.

Project Overview		
Objective	To develop an advanced shipping prediction system for e-commerce platforms that provides accurate delivery times by considering real-time factors	
Scope	Integration with existing e-commerce platforms. Real-time data collection and processing from various sources. Prediction model development and implementation.	
Problem Statemen	t	
Description	E-commerce customers rely on promised delivery dates for their online purchases to plan their schedules and meet their needs. However, frequent delays and inaccurate delivery times disrupt these plans, causing frustration	
Impact	Enhanced customer satisfaction and trust in the e-commerce platform. Increased customer retention and repeat purchases, improved operational efficiency for e-commerce businesses. Better resource management and logistics planning.	
Proposed Solution		
Approach	Data Collection, Data Processing, Model Development, Integration, Testing and Validation	





Key Features	Real-time tracking and updates for customers. Accurate delivery time predictions considering various dynamic factors. Alerts and notifications for potential delays.
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Resource Requirements

Resource Type	Description	Specification/Allocation		
Hardware				
Computing Resources	CPU/GPU specifications, number of cores	T4 GPU		
Memory	RAM specifications	8 GB		
Storage	Disk space for data, models, and logs	1 TB SSD		
Software				
Frameworks	Python frameworks	Flask		
Libraries	Additional libraries	scikit-learn, pandas, numpy, matplotlib, seaborn		
Development Environment	IDE, version control	Google Colab		
Data				
Data	Source, size, format	Kaggledataset, 431, csv		