



Project Initialization and Planning Phase

Date	15 March 2024	
Team ID	SWTID1720108903	
Project Title	Ecommerce Shipping Prediction Using Machine Learning	
Maximum Marks	3 Marks	

Project Proposal (Proposed Solution) template

This project proposal outlines a solution to address a specific problem. The proposal report aims to transform the e-commerce shipping process using machine learning, boosting efficiency and accuracy. It tackles system inefficiencies, promising better operations, reduced delays, and happier customers. Key features include a machine learning-based delivery time prediction model and real-time tracking.

Project Overview		
Objective	The primary objective is to revolutionize the e-commerce shipping process by implementing advanced machine learning techniques, ensuring faster and more accurate delivery predictions.	
Scope	The project comprehensively assesses and enhances the shipping prediction process, incorporating machine learning for a more robust and efficient system.	
Problem Statement		
Description	Addressing inaccuracies and inefficiencies in the current shipping prediction system that adversely affect operational efficiency and customer satisfaction.	
Impact	Solving these issues will result in improved operational efficiency, reduced shipping delays, and an overall enhancement in the delivery process, contributing to customer satisfaction and organizational success.	
Proposed Solution		
Approach	Employing machine learning techniques to analyze and predict delivery times, creating a dynamic and adaptable shipping prediction	





	system.
Key Features	Implementation of a machine learning-based delivery time prediction model. Real-time tracking and updates for customers. Proactive notifications for any changes in the delivery schedule. Integration with multiple logistics providers to choose the most efficient option.

Resource Requirements

Resource Type	Description	Specification/Allocation		
Hardware				
Computing Resources	CPU/GPU specifications, number of cores	e.g., 2 x NVIDIA V100 GPUs		
Memory	RAM specifications	e.g., 8 GB		
Storage	Disk space for data, models, and logs	e.g., 1 TB SSD		
Software				
Frameworks	Python frameworks	e.g., Flask		
Libraries	Additional libraries	e.g., scikit-learn, pandas, numpy		
Development Environment	IDE, version control	e.g., Jupyter Notebook, Git		
Data				
Data	Source, size, format	e.g., Kaggle dataset, train.csv		