Project Initialization and Planning Phase

Date	04 June 2024
Team ID	SWTID1720260935
Project Title	Ecommerce Shipping Prediction Using Machine Learning
Maximum Marks	3 Marks

Project Proposal (Proposed Solution) template

This project proposal describes a way to deal with a certain issue. The suggested solution has a precise goal, a well-defined scope, and a succinct problem statement. It also describes the approach, important features, and resource needs, such as staff, software, and hardware.

Project Overview	
Objective	In order to improve operational and customer efficiency, this project aims to develop a machine learning model that can predict shipping timeframes for online orders.
Scope	creating a machine learning model to forecast delivery dates using previous order information.
Problem Statement	
Description	It uses machine learning to increase operational effectiveness and consumer experience.
Impact	By doing this, businesses would be able to provide clients with precise arrival predictions and improve order fulfillment processes overall.
Proposed Solution	
Approach	Data collection, preprocessing, model training and selection, assessment, and deployment.
Key Features	Predictive Shipping Times, Customizable Inputs, Performance Monitoring.

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, pycharm
Development Environment	IDE, version control	Jupyter Notebook, Spyder
Data		
Data	Source, size, format	Kaggle dataset, 614, csv UCI dataset,690, Performance Monitoring