Project Initialization and Planning Phase

Date	07 June 2024
Team ID	SWTID1720451040
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. With a clear objective, defined scope, and a concise problem statement, the proposed solution details the approach, key features, and resource requirements, including hardware, software, and personnel.

Project Overview	
Objective	This project intends to construct a machine learning model that can anticipate shipping times for online orders, hence improving operational and customer efficiency.
Scope	Building a machine learning model with past order data to predict delivery dates.
Problem Statement	
Description	It improves customer satisfaction and operational efficacy through machine learning.
Impact	Businesses might thus improve order fulfillment procedures overall and give clients accurate arrival estimates.
Proposed Solution	
Approach	Gathering data, preprocessing, choosing and training models, evaluation, and implementation.
Key Features	Performance tracking, customizable inputs, and predictable shipping times.

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