Project Initialization and Planning Phase

Date	09 July 2024
Team ID	SWTID1720499933
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	To predict whether the package is delivered on time using machine learning
Scope	Study various classification models and train on the available dataset
Problem Statement	
Description	E-commerce needs a real-time delivery predictor using machine learning to consider various parameters for accurate estimates, improving customer experience and efficiency.
Impact	Machine learning predicts accurate delivery times for e-commerce, boosting customer satisfaction and optimizing business operations.
Proposed Solution	
Approach	Train various classification models and compare the classification reports to determine suitable model.
Key Features	Multi-model training and testing to come to conclusion, instead of single model training. Accessible user interface to input values to determine punctual delivery.

Resource Requirements

Resource Type	Description	Specification/Allocation
Hardware		
Computing Resources	CPU/GPU specifications, number of cores	e.g., 2 x i3-1115G4 @ 3GHz
Memory	RAM specifications	e.g., 16 GB
Storage	Disk space for data, models, and logs	e.g., 1 TB HDD
Software		
Frameworks	Python frameworks	e.g., Flask
Libraries	Additional libraries	e.g., scikit-learn, pandas, numpy
Development Environment	IDE, version control	e.g., Microsoft Visual Studio Code
Data		
Data	Source, size, format	e.g., Kaggle dataset, 11,000 rows