Project Initialization and Planning Phase

Date	7 July 2024
Team ID	SWTID1720161281
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 correctly predict which products were delivered on time
Scope	To use various Machine Learning Algorithms to predict whether a product was shipped on time or not
Problem Statement	
Description	An international e-commerce company wants to monitor whether a product was delivered or not. So, for that purpose develop a ML algorithm which will correctly predict weather it was delivered or not.
Impact	Developing a application like this will help them monitor the whether the customers are getting products on time or not, which will help them improve customer experience.
Proposed Solution	
Approach	Firstly, we would have to collect the dataset from Kaggle or any other sources, apply some pre-processing to it and then apply ML algorithms like SVM, Logistic Regression.
Key Features	The major steps in the process are applying correct pre-processing on the data and then apply a correct and accurate ML algorithm.

Resource Requirements

Resource Type	Description	Specification/Allocation
Hardware		
Computing Resources	CPU/GPU specifications, number of cores	Google Collab's T4 GPU
Memory	RAM specifications	12.7 GB (System RAM) +15 GB (GPU RAM)
Storage	Disk space for data, models, and logs	78.2 GB
Software		
Frameworks	Python frameworks	Flask, TensorFlow
Libraries	Additional libraries	scikit-learn, Pandas, NumPy,
Development Environment	IDE, version control	Google Collab IDE
Data		
Data	Source, size, format	Kaggle CSV Data Set (10999 observation)