**Project Initialization and Planning Phase**

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| 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.

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| **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**

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| **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 |