**Project Initialization and Planning Phase**

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| 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.

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| **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**

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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 |