**Project Design Phase-I**

**Proposed Solution Template**

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| Date | 20 October 2023 |
| Team ID |  |
| Project Name | Project – Ecommerce Shipping Prediction Using Machine Learning. |
| Maximum Marks | 2 Marks |

**Proposed Solution Template:**

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| **S.No.** | **Parameter** | **Description** |
| 1. | Problem Statement (Problem to be solved) | Develop a machine learning model to predict  E-commerce shipping times, optimizing delivery estimates by considering historical data, destination, package details, and carrier performance for improved customer satisfaction. |
| 2. | Idea / Solution description | Utilizing regression algorithms, our model analyses historical data and relevant factors like destination and package details to predict E-commerce shipping times, enhancing delivery accuracy and customer satisfaction. |
| 3. | Novelty / Uniqueness | The uniqueness of predicting E-commerce shipping times using machine learning lies in its ability to leverage historical data, destination details, and package attributes to provide accurate and personalized delivery estimates. This approach optimizes customer satisfaction and operational efficiency, distinguishing it from traditional static shipping estimates. |
| 4. | Social Impact / Customer Satisfaction | Enhancing customer satisfaction through accurate shipping predictions reduces stress, foster trust, improve customer retention and promote positive word-of-mouth, benefiting individuals and building stronger, more customer-centric E-commerce platforms. |
| 5. | Business Model (Revenue Model) | * Offer tiered subscription plans to E-commerce businesses, providing access to shipping time predictions, with fees structured according to the level of service, prediction volume, and advanced features. * Collect valuable shipping and logistics data as you develop your model. License this data to   E-commerce businesses or logistics companies looking to enhance their own services. |
| 6. | Scalability of the Solution | The solution offers scalability to meet the evolving needs of E-commerce businesses. It efficiently processes expanding datasets and adapts to changing shipping volumes, making it suitable for businesses of all sizes, ultimately improving accuracy and customer satisfaction. |