

**Model Development Phase**

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| Date | 10 June 2024 |
| Team ID | 739721 |
| Project Title | Optimising Food Delivery Using ML |
| Maximum Marks | 5 Marks |

**Feature Selection Report Template**

In the forthcoming update, each feature will be accompanied by a brief description. Users will indicate whether it's selected or not, providing reasoning for their decision. This process will streamline decision-making and enhance transparency in feature selection.

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| **Feature** | **Description** | **Selected (Yes/No)** | **Reasoning** |
| Delivery Person Rating | Rating of the delivery person based on past performance | Yes | Helps in understanding the quality of service and its impact on delivery time and customer satisfaction. |
| Restaurant latitude | Geographical latitude of the restaurant | Yes | .Essential for calculating the distance between the restaurant and delivery location. |
| Restaurant longitude | Geographical longitude of the restaurant | Yes | Essential for calculating the distance between the restaurant and delivery location. |
| Delivery location latitude | Geographical latitude of the delivery location | Yes | Critical for calculating the delivery route and distance. |
| Delivery location longitude | Geographical longitude of the delivery location | Yes | Critical for calculating the delivery route and distance. |
| Time Orderd | Timestamp when the order was placed | Yes | Important for understanding peak hours and timing patterns affecting delivery performance. |
| Weather conditions | Current weather conditions at the time of delivery | Yes | Weather can significantly impact delivery times and route optimization. |
| Road traffic density | Traffic conditions on the delivery route | Yes | High traffic density can cause delays; essential for real-time route adjustments. |
| Type of order | Category of the order (e.g., meal type) | Yes | Different order types may have varying preparation and delivery times. |
| Festival | Indicates if the order is placed during a festival | Yes | Festivals can affect order volume and traffic, impacting delivery times. |
| City | The city where the delivery is being made | Yes | Different cities may have different traffic patterns and customer behaviours. |