**Model Development Phase Report**

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| Date | 12 July 2024 |
| Team ID | Team - 740292 |
| Project Title | Abalone Age Prediction |
| 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** |
| Sex | Sex of Abalone | Yes | For predicting the Abalone Age Sex of Abalone is required. |
| Length | Length of Abalone | Yes | For predicting the Abalone Age Length of Abalone will also be useful. |
| Diameter | Diameter of Abalone | Yes | Diameter of Abalone can impact Abalone Age. |
| Height | Height of Abalone | Yes | Indicates Height of Abalone which will also be used to calculate Abalone Age. |
| Whole weight | Whole weight  of Abalone | Yes | Whole weight of Abalone may also be used in calculating Abalone Age. |
| Shucked weight | Shucked weight of Abalone (Weight of edible part of Abalone after getting removed from  shell) | Yes | Shucked weight is one of the crucial features in determining the Abalone Age. |
| Viscera weight | Viscera weight of Abalone (Weight of internal organs of Abalone excluding shell) | Yes | Viscera weight provides a more accurate prediction of Abalone Age. |
| Shell weight | Shell weight of Abalone | Yes | Shell weight is also used in predicting Abalone Age. |
| Rings | Number of rings of Abalone | No | Number of Rings may not be used in predicting Abalone Age. |