**Model Development Phase Template**

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| Date | 09 July 2024 |
| Team ID | SWTID1720023141 |
| Project Title | Prediction and Analysis of Liver Patient  Data Using Machine Learning |
| 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** |
| Age | Age of the patient | Yes | Essential demographic feature |
| Gender | Gender of the  patient  (Male/Female) | Yes | Basic demographic feature, could  impact disease prediction |
| Total\_Bilirubin | Total bilirubin level  in the blood | Yes | Key indicator of liver function |
| Alkaline\_Phosp  hotase | Alkaline phosphatase  level in the blood | Yes | Critical for diagnosing liver conditions |
| Alamine\_Amino  transferase | Alanine  aminotransferase  level in the blood | Yes | Important liver enzyme indicator |
| Aspartate\_Amin  otransferase | Aspartate  aminotransferase  level in the blood | Yes | Another key liver enzyme |
| Total\_Protiens | Total proteins level  in the blood | Yes | Important for overall liver health |
| Albumin | Albumin level in the  blood | Yes | Crucial protein level in liver function |
| Albumin\_and\_G  lobulin\_Ratio | Ratio of albumin to  globulin | Yes | Ratio of albumin to  globulin |
| Dataset | Classification of  whether the patient  has liver disease (1)  or not (2) | Yes | Target variable indicating liver disease  presence |