

**Model Development Phase Template**

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| Date | 13 july 2024 |
| Team ID | 739805 |
| 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 |
| Direct\_Bilirubin | Direct bilirubin level in the blood | Yes | Important for assessing liver function |



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| --- | --- | --- | --- |
| 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 | Reflects balance of key proteins in the liver |
| Dataset | Classification of whether the patient has liver disease (1) or not (2) | Yes | Target variable indicating liver disease presence |