**Model Development Phase Template**

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| **Date** | 11 July 2024 |
| **Team ID** | 739908 |
| **Project Title** | SmartLender - Applicant Credibility  Prediction for Loan Approval |
| **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** |
| Loan\_ID | Unique  identifier for each loan applicant | No | For predicting the loan, a Loan ID is not required. |
| Gender | Applicant's gender | Yes | Relevant for assessing diversity and potential bias in loan approval. |
| Married | Marital status of the applicant | Yes | Marital status can impact financial stability and loan eligibility. |
| Dependents | Number of  dependents | Yes | Indicates financial responsibilities and influences loan capacity. |

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| Self\_Employ ed | Self-employme nt status | Yes | Self-employed individuals may have different financial profiles. |
| Applicant  Income | Income of the applicant | Yes | It is crucial in determining the applicant's financial capacity. |
| Co-applicant  Income | Income of the co-applicant | Yes | Combined income provides a more accurate picture of financial stability. |
| Loan  Amount | Amount of  loan applied | Yes | Fundamental for assessing the financial magnitude of the loan. |
| Loan  Amount  Term | Term of the loan (in months) | Yes | The loan term influences monthly repayments and impacts eligibility. |
| Credit\_Histo ry | Credit history of the applicant | Yes | A major factor in loan approval is reflecting the applicant's creditworthiness. |
| Loan\_Status | Loan approval outcome | Yes | The target variable for predictive modeling – is essential for the project's goal. |

