**Model Development Phase Template**

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| Date | 22 June 2024 |
| Team ID | 740185 |
| Project Title | Loan Sanction Amount Prediction Data With 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** |
| Customer\_ID | Unique identifier for each customer | No | For predicting the loan amount, a Customer ID is not required. |
| Name | Name of the applicant | No | Not relevant for prediction; does not impact loan sanction amount. |
| Gender | Applicant's gender | Yes | Relevant for assessing diversity and potential bias in loan sanction. |
| Age | Applicant's age | Yes | Age can impact financial stability and loan eligibility. |
| Income (USD) | Income of the applicant | Yes | Crucial in determining the applicant's financial capacity. |
| Income Stability | Stability of the applicant's income | Yes | Indicates the reliability of the applicant's income over time. |
| Profession | Applicant's profession | Yes | Profession can influence income stability and financial profile. |
| Type of Employment | Type of employment (e.g., salaried) | Yes | Different types of employment can affect financial stability. |
| Location | Residential location of the applicant | Yes | Location can influence living expenses and loan repayment ability. |
| Loan Amount Request (USD) | Amount of loan applied for | Yes | Fundamental for assessing the financial magnitude of the loan. |
| Current Loan Expenses (USD) | Current loan expenses of the applicant | Yes | Indicates existing financial obligations impacting loan capacity. |
| Expense Type 1 | Type of primary expenses | Yes | Understanding expense types can help assess financial management. |
| Expense Type 2 | Type of secondary expenses | Yes | Further insights into financial responsibilities. |
| Dependents | Number of dependents | Yes | Indicates financial responsibilities and influences loan capacity. |
| Credit Score | Credit score of the applicant | Yes | Reflects the applicant's creditworthiness, a major factor in loan approval. |
| No. of Defaults | Number of defaults by the applicant | Yes | Past defaults are critical in assessing loan risk. |
| Has Active Credit Card | Active credit card status | Yes | Indicates current credit utilization which affects financial stability. |
| Property ID | Unique identifier for the property | No | Not necessary for loan sanction prediction; used for property identification. |
| Property Age | Age of the property | Yes | Older properties might have different valuation impacts. |
| Property Type | Type of property | Yes | Property type can affect loan valuation and risk. |
| Property Location | Location of the property | Yes | Property location influences value and market stability. |
| Co-Applicant | Co-applicant status | Yes | Combined financial profiles provide a better assessment of loan capacity. |
| Property Price | Price of the property | Yes | Essential for evaluating the loan-to-value ratio. |