

## Model Development Phase Template

|               |   |
|---------------|---|
| Date          | 09 july 2024  |
| Team ID       | SWTID1720174514   |
| Project Title | Early Prediction Of Chronic Kidney Disease 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.

| Feature    | Description               | Selected (Yes/No) | Reasoning   |
|------------|---------------------------|-------------------|---|
| <b>Age</b> | Patient's age in years    | <b>Yes</b>        | Age is a significant risk factor for chronic kidney disease.              |
| <b>BP</b>  | Blood pressure (mm Hg)    | <b>Yes</b>        | High blood pressure is a known risk factor for chronic kidney disease.    |
| <b>SG</b>  | Specific gravity of urine | <b>Yes</b>        | Indicates kidney's ability to concentrate urine; important for diagnosis. |
| <b>AL</b>  | Albumin levels in urine   | <b>Yes</b>        | High albumin levels in urine can be a sign of kidney disease.             |
| <b>SU</b>  | Sugar levels in urine     | <b>Yes</b>        | High sugar levels can be associated with diabetes, a risk factor.         |

|            |                                      |            |  |
|------------|--------------------------------------|------------|--|
| <b>RBC</b> | Presence of red blood cells in urine | <b>Yes</b> | Can indicate kidney damage.  |
| <b>PC</b>  | Pus cells in urine                   | <b>Yes</b> | Indicates infection or inflammation in the urinary tract.          |
| <b>PCC</b> | Pus cell clumps in urine             | <b>Yes</b> | Indicates infection or inflammation in the urinary tract.          |
| <b>BA</b>  | Bacteria in urine                    | <b>No</b>  | Bacteria presence alone is not a strong predictor in this context. |
| <b>BGR</b> | Blood glucose random                 | <b>Yes</b> | High glucose levels can indicate diabetes, a risk factor.          |