Model Development Phase Template

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| Date | 21 April 2024 |
| Team ID | Team-738178 |
| Project Title | Envisioning Success : Predicting University Scores With 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** |
| world\_rank | Global ranking of the institution | No | May not be directly relevant for score  prediction, focusing more on other  characteristics. |
| institution | Name of the University | No | Not directly relevant for predicting the score. |
| country | Country where the university is located | No | The location may not directly impact the score, focusing more on other characteristics. |
| national\_rank | National ranking of the institution | No | May be redundant with other features and not directly relevant for score prediction. |

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| quality\_of\_  education | Quality of education offered by the university | Yes | A key factor in determining the university's score and overall academic performance. |
| alumni\_  employment | Success and employment rate of alumni | Yes | Reflects the institution's ability to prepare students for the job market. |
| quality\_of\_  faculty | Competence and Qualifications of faculty | Yes | Directly impacts the quality of education and research output, influencing the score. |
| publications | Research output in terms of published works | Yes | Indicates the university's research  productivity and impact on the academic  community. |
| influence | The institution's impact on its field | Yes | Measures the university's contributions and leadership in research and academics. |
| citations | Number of times university research is cited | Yes | Reflects the significance and recognition of the university's research work. |
| broad\_impact | Wide-ranging influence of the university | No | Potentially too broad or redundant with other selected features. |
| patent | Innovation output and patent filings | Yes | Reflects the university's ability to produce valuable research and innovation. |
| score | The university's score based on various factors | No | Not used as a feature; it is the target variable being predicted |
| year | The year the data was collected | No | Not essential for score prediction, focusing more on institutional features |