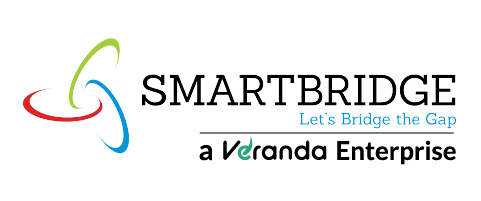
**Model Development Phase Template**

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| --- | --- |
| Date | 25 June 2024 |
| Team ID | 739860 |
| Project Title | A Comprehensive Measure of Well-  Being:The Human Development Index 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** |
| Country | It provides a comprehensive overview of a nation's development status based on the HDI, highlighting both achievements and areas needing improvement. | Yes | The Human Development Index (HDI) provides a comprehensive measure of a country's development status beyond just economic indicators,Multi-Dimensional  Approach,policy Guidance,public  Awareness,etc… |
| HDI Rank | It measures countries average acheivements in three aspects | Yes | HDI ranking is a valuable tool for assessing and comparing human development levels worldwide, highlighting the multi-dimensional aspects of well-being, and guiding policies towards improving the lives of people globally. |
| HDI | To compare and rank countries based on their level of human development | Yes | HDI is a powerful tool for assessing and tracking human development progress across countries, emphasizing the importance of health, education, and living standards in enhancing people's capabilities and quality of life. |
| Life expectancy | One of the key factor to measure country’s level of human development | Yes | Life expectancy is a crucial component of the HDI because it captures essential aspects of human development related to health and well-being. It underscores the importance of healthcare, nutrition, and socio-economic factors in determining life expectancy levels. |



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| Mean years of schooling | Overall schooling in the year | Yes | Mean Years of Schooling , it captures the educational achievements of a population, reflects investments in human capital development, and influences long-term socio-economic outcomes. |
| Gross  National  Income | it provides insight into the economic resources available to individuals within a country. | Yes | It complements health and education indicators by providing a broader perspective on economic well-being and living standards, guiding policies and interventions aimed at enhancing overall human development. |
| Change in  HDI Rank  2010-2015 | change in HDI rank for the country's  development  trajectory in the year 2010-15 | Yes | Changes in HDI rank are a testament to a country's commitment to improving the well-being of its citizens through strategic investments in health, education, and economic development. |
| Gender  Development  Index value | It is a specific  aspect of the  Human  Development  Index (HDI) that focuses on  gender  disparities in  development outcomes. | Yes | It specifically measures gender disparities in key dimensions of human development. It underscores the importance of promoting gender equity as a fundamental aspect of advancing societal well-being and economic prosperity. |
| Employment in agriculture (% of total  employment) 2010-2014 | Understanding the dynamics of agricultural  employment within the  Human  Development Index framework | Yes | By enhancing agricultural productivity, reducing poverty, and improving livelihoods, countries can achieve significant progress towards broader human development goals and improve the well-being of their populations. |
|  | helps policymakers prioritize investments and interventions that promote inclusive and sustainable development  for agricultural communities worldwide. |  |  |
| Total  Unemployment  (% of labour force) 2015 | It directly impacts the economic, social, and psychological well-being of individuals and societies. | Yes | Unemployment significantly affects human development by influencing economic stability, education outcomes, social wellbeing, and policy responses. Addressing unemployment challenges through effective policies and interventions is essential for promoting inclusive growth, reducing poverty, and enhancing overall human development outcomes worldwide |
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