



Model Development Phase Template

Date	2 July 2024
Team ID	SWTID1720086522
Project Title	
	Forecasting Economic Prosperity: Leveraging
	Machine Learning For GDP Per Capita
	Prediction
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
Pop. Density (per sq. mi.)	Population density.	yes	Reflects urbanization and resource allocation.
Phones (per 1000)	Number of phone lines per 1000 people.	yes	Reflects communication infrastructure and technological development.





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Arable (%)	Percentage of land suitable for agriculture.	yes	Significant economic sector in many countries.
Crops (%)	Percentage of land used for crops.	yes	Further details agricultural productivity.
Climate	Climate classification.	yes	Affects agricultural productivity and economic activities.
Birthrate	Number of births per 1000 people per year.	yes	Relates to population growth and demographic trends.
Deathrate	Number of deaths per 1000 people per year.	yes	Relates to overall health and demographic trends.
Agriculture	Percentage of GDP from agriculture.	yes	Indicates the importance of agriculture in the economy.
Industry	Percentage of GDP from industry.	yes	Indicates the industrial base and economic diversification.
Service	Percentage of GDP from services.	yes	Reflects the service sector's contribution to the economy.
Country	Unique identifier for each country.	no	For predicting GDP, country is not required.
Region	Geographical region of the country.	no	For predicting GDP, region is not required





Net (immigration migration minus emigration).	no	Impacts workforce dynamics and economic growth.
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