



Model Development Phase		
Date	17 July 2024	
Team ID	Team-739867	
	SmartLender – Envisioning Success:	
	Predicting University Scores With Machine	
Project Title	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			Reasoning
	Description	Selected(yes/No	
)	
world_rank	It represents	No	Data leakage,Inflated
	the global ranking of a university according to various university ranking systems.		performance,Limited generalisation

institution	It's a	Yes	Capturing brand value, Proxy for
	category corresponds		Unmeasured factors,Potential performance gains.
	to a unique		
	institution.		

country	It's	Yes	Regional difference, Resource
	represents the country where a university or institution is located.		Availability,Global reputation.Regional analysis
national_rank	It's represents the ranking of a university within its own country.	Yes	Relative performance, Contextualization, Identifyin g National Champions, National level analysis.
quality_of_educatio n	It's represents the overall quality of education provided by a university.	Yes	Core Education Mission,Student Experience,Future success Indicator,Multifaceted Concept.
alumni_employment	the employment outcomes of a university's alumni.	Yes	Measures of Graduate success,Attractiveness to prospective students,Industry connections and Reputation,outcome-oriented rankings.

quality_of_faculty	the expertise, experience, and qualification	Yes	Driving force of research and education, Attracting top students, Knowledge creation and Dissemination.
	s of a university's faculty members.		
publications	It is represents the research output and academic productivity of a university's faculty and researchers.	Yes	Measure of Research Productivity,Attracting Research funding and talent,Dissemination of Knowledge.
influence	the impact and reputation of a university on a global scale.	Yes	Thought Leadership and Reputation,Attracting Diverse Stakeholders,Holistic Rankings.

citations	the impact	Yes	Indicator of Research Quality, Measuring
	and		research impact, Assessing research
	influence of		quality,Research-Intensive Rankings.
	a university's		
	research		
	output,		
	measured by		
	the number		
	of times its		
	publications		
	are cited by		

	other researchers.	
broad_impact	Represents the extent to which a university's research and activities have a broad, far- reaching impact on society, economy, and environment.	Holistic Assessment, Attracting Diverse Stakeholders, Reflecting Societal Relevance, Identifying socially engaged universities.

patents	which can be an indicator of the university's innovation and research output.	Yes	Innovation and Commercialization,Industry Collaboration and impact,Attracting Entrepreneurial Talent.
score	It's represents the overall performance or ranking of a university	No	It is target variable not a feature,Defeats the purpose,Data leakage and Circularity.
year	the specific year or time period associated with the university data.	Yes	Capturing trends and changes, Adjusting for time-specific factors, Longitudinal analysis.