



	Model Development Phase		
Date	06 July 2024		
Team ID	739824		
	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		performance,Limited generalisation
	ranking of a		
	university		
	according to		
	various		
	university		
	ranking		
	systems.		
institution	It's a	Yes	Capturing brand value, Proxy for
	category		Unmeasured factors,Potential
	corresponds		performance gains.
	to a unique		
	institution.		

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

	s of a		
	university's		
	faculty		
	members.		
publications	It is	Yes	Measure of Research
	represents		Productivity, Attracting Research funding
	the research		and talent, Dissemination of Knowledge.
	output and		
	academic		
	productivity		
	of a		
	university's		
	faculty and		
	researchers.		
influence	the impact	Yes	Thought Leadership and
	and		Reputation, Attracting Diverse
	reputation of		Stakeholders, Holistic Rankings.
	a university		
	on a global		
	scale.		
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	Yes	Holistic Assessment, Attracting Diverse
	the extent to		Stakeholders,Reflecting Societal
	which a		Relevance, Identifying socially engaged
	university's		universities.
	research and		
	activities		
	have a broad,		
	far-reaching		
	impact on		
	society,		
	economy,		
	and		
	environment.		
patents	which can	Yes	Innovation and
	be an		Commercialization,Industry
	indicator of		Collaboration and impact, Attracting
	the		Entrepreneurial Talent.
	university's		
	innovation		
	and research		
	output.		
score	It's	No	It is target variable not a feature,Defeats
	represents		the purpose,Data leakage and Circularity.
	the overall		
	performance		
	or ranking of		
	a university		
year	the specific	Yes	Capturing trends and changes, Adjusting
	year or time		for time-specific factors,Longitudinal

period		analysis.
associa	nted	
with th	ne	
univer	sity	
data.		