Model Development Phase Template

Date	JULY 5 2024
Team ID	740010
Project Title	Prosperity Prognasticator :Machine Learning Startup Success 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
State_code	where State the startup is located	No	For predicting the success, a state code is not required.
Latitude	Startup success prediction using key factors	No	For predicting the success, latitude is not required.

Longitude	Predictive insights through data analysis and modeling	No	For predicting the success, longitude is not required.
Zip_code	Zip code of the startup's location.	No	For predicting the success, zip code is not required.
ID	Unique identifier for the startup.	No	For predicting the success, ID is not required.
City	City where the startup is located.	No	For predicting the success, city is not required.
Name	Name of the startup.	No	For predicting the success, Name is not required.
Founded_at	Date when the startup was founded.	No	For predicting the success, Founded_at is not required.
Closed_at	Date when the startup ceased operations or closed down.	No	For predicting the success, closed_at is not required.

Age_First_Funding_Year	The number of years from a startup's founding to its first funding.	Yes	Funding year can impact success of startup

Age Last Funding Year	The number of years from a startup's founding to its	Yes	For predicting the success, Age_Last_funding_year plays crucial role.

	most recent funding.		

Age First Milestone Year	The number of years from a startup's founding to its first significant milestone.	Yes	Indicates milestone year of startup's which is more impact.
Age Last Milestone Year	The number of years from a startup's founding to its most recent significant milestone.	Yes	For predicting the success, Age_Last_Milestone_year is required..
Relationships	The number of strategic partnerships and connections a startup has.	Yes	For predicting the success, Relationships is required.
Funding Rounds	The total number of investment rounds a startup has secured.	Yes	For predicting the success, Funding Rounds is required.

Funding Total USD	The total amount of funding a startup has received in US dollars.	Yes	Total amount received for startup's helpful for predicting the success.
Milestones	Significant achievements or events in a startup's development timeline.	Yes	For predicting the success, Milestones is required.

Is CA	Indicator of whether a startup is based in California.	No	For predicting the success, Is CA is not required.
Is NY	Indicator of whether a startup is based in New York.	No	For predicting the success, Is NY is not required.
Is MA	Indicator of whether a startup is based in Massachusetts.	No	For predicting the success, Is MA is not required.
Is TX	Indicator of whether a startup is based in Texas.	No	For predicting the success, Is TX is not required.

Is Other State	Indicator of whether a startup is based in a state other than NY, MA, or TX.	No	For predicting the success, Is Other State is not required.
Is Software	Indicator of whether a startup operates in the software industry.	No	For predicting the success, Is Software not required.
Is Mobile	Indicator of whether a startup operates in the mobile app development industry.	No	For predicting the success, Is Mobile not required.
Is Enterprise	Indicator of whether a startup operates in the enterprise software sector.	No	For predicting the success, Is Enterprise not required.

Is Advertising	Indicator of whether a startup operates in the advertising industry.	No	For predicting the success,Is Advertising not required.
Is Games Video	Indicator of whether a startup operates in the video games industry.	No	For predicting the success, Is Games Video not required.

Is Ecommerce	Indicator of whether a startup operates in the ecommerce sector.	No	For predicting the success, Is Ecommerce is not required.
Is Biotech	Indicator of whether a startup operates in the biotechnology sector.	No	For predicting the success ,Is Biotech is not required.
Is Consulting	Indicator of whether a startup operates in the consulting sector.	No	For predicting the success, Is Consulting not required.
Is Other Category	Indicator of whether a startup operates in a category other than software, mobile, enterprise, advertising, games video, ecommerce, biotech, or consulting.	No	For predicting the success, Is Other Category not required.

Has VC	Indicator of whether a startup has received venture capital funding.	No	For predicting the success, Has VC is not required.

Has Angel	Indicator of whether a startup has received angel investment.	No	For predicting the success, Has angel is not required.
Has Round A	Indicator of whether a startup has completed Series A funding round.	No	For predicting the success, Has Round A is not required.
Has Round B	Indicator of whether a startup has completed Series B funding round.	No	For predicting the success, Has Round B is not required.
Has Round C	Indicator of whether a startup has completed Series C funding round.	No	For predicting the success, Has Round C is not required.
Has Round D	Indicator of whether a startup has completed Series D funding round.	No	For predicting the success, Has Round D is not required.
Avg Participants	Average number of participants in a startup's funding rounds.	Yes	For predicting the success, Avg_Participants is required.

Is Top500	Indicator of whether a startup is ranked among the top 500 companies in its industry.	No	For predicting the success ,Is not Is Top500 not required.
Status	Current status or stage of development of the startup.	Yes	For predicting the success, Status is target column-is essential for the project's goal.