



Data Collection and Preprocessing Phase

Date	21 June 2024
Team ID	TMID739832
Project Title	Startup Prophet
Maximum Marks	6 Marks

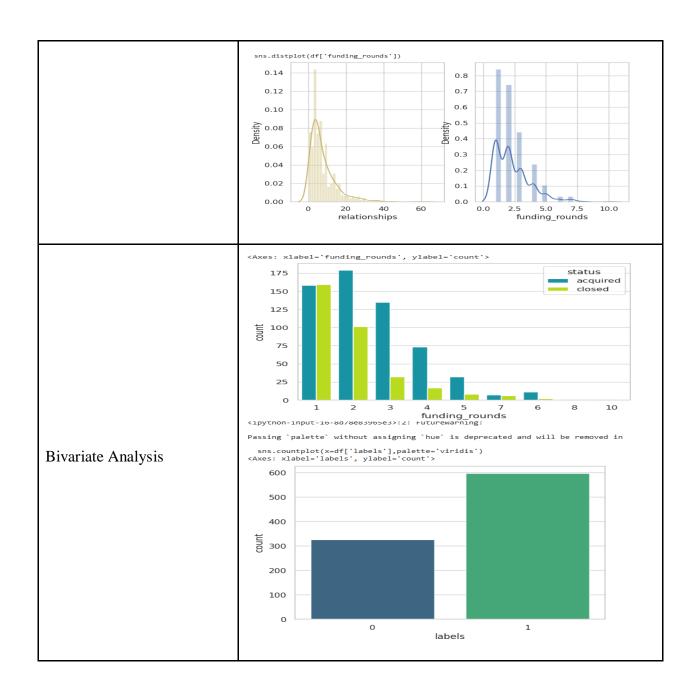
Data Exploration and Preprocessing Report

Dataset variables will be statistically analyzed to identify patterns and outliers, with Python employed for preprocessing tasks like normalization and feature engineering. Data cleaning will address missing values and outliers, ensuring quality for subsequent analysis and modeling, and forming a strong foundation for insights and predictions.

Section	De	scrip	tion						
	923	mensi 3 row script	$s \times 1$	<u>tatist</u>	ics:				
	count	Unnamed: 0		longitude 923.000000		age_first_funding_year	age_last_funding_year	age_first_milestone_year 771.000000	age_last_milestone_year
	mean	572.297941		-103.539212	0.646804	2.235630	3.931456	3.055353	4.754423
Data Overview	std	333.585431	3.741497	22.394167	0.478222	2.510449	2.967910	2.977057	3.212107
	min	1.000000	25.752358	-122.756956	0.000000	-9.046600	-9.046600	-14.169900	-7.005500
	25%	283.500000	37.388869	-122.198732	0.000000	0.576700	1.669850	1.000000	2.411000
	50%	577.000000	37.779281	-118.374037	1.000000	1.446600	3.528800	2.520500	4.476700
	75%	866.500000	40.730646	-77.214731	1.000000	3.575350	5.560250	4.686300	6.753400
	max	1153.000000	59.335232	18.057121	1.000000	21.895900	21.895900	24.684900	24.684900
Univariate Analysis									

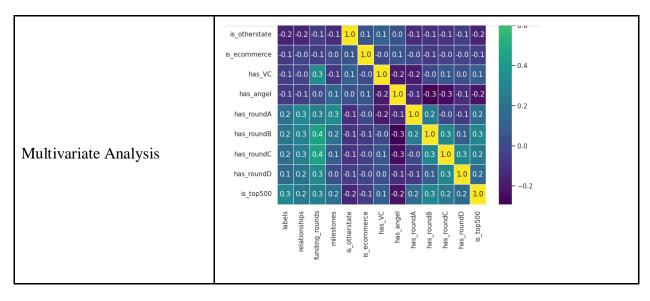












Outliers and Anomalies	-																	
Data Preprocessing Code Sc	ree	ns	hot	s														
	[9]		THE DAT		nt/data set.	sv')												
	[10] 2	df.he		state_cod	le latitude	longitude	zip_code	id	city	Unnamed:	name	labels		object_id	has_VC	has_angel	has_rou	ndA
Loading Data		0	1005	С	A 42.358880	-71.056820	92101	c:6669	San Diego	NaN	Bandsintown	1	_	c:6669	0	1		0
		1	204	C	A 37.238916	-121.973718	95032	c:16283	Los Gatos	NaN	TriCipher	1		c:16283	1	(0
		2	1001	С	A 32.901049	-117.192656	92121	c:65620	San Diego	San Diego CA 92121	Plixi	1	-	c:65620	0	C		1
										Cunertino	Qulidonre	1						
		-																
Handling Missing Data																		
Handling Missing Data																		





Data Transformation	<pre>[25] #SEPARATING THE DATA x=df.drop(columns=['labels'],axis=1) y=df['labels']</pre>				
	<pre>#STANDARD SCALAR from sklearn.preprocessing import StandardScaler sc=StandardScaler() x=sc.fit_transform(x) x</pre>				
	array([[-0.648696 , 0.49566485, 0.87613768,, -0.55106471, -0.3327311 , -2.06017431], [0.17754099 , 1.21500235, -0.6368185 ,, 1.81466891, 3.00542987, 0.48539582], [-0.37328367, -0.94301016, 0.11965959,, -0.55106471, -0.3327311 , 0.48539582],				
	, [-0.37328367, -0.94301016, -0.6368185 ,, -0.55106471, 3.00542987, 0.48539582], [0.59065949, -0.22367266, 0.11965959,, -0.55106471, -0.3327311 , 0.48539582], [-0.51098983, -0.94301016, -0.6368185 ,, -0.55106471,				
Feature Engineering	Attached the codes in final submission.				
Save Processed Data	-				