



## **Data Collection and Preprocessing Phase**

Date	7 June 2024
Team ID	team-739778
Project Title	prosperity Prognosticator : Machine Learning for Startup Success Prediction
Maximum Marks	6 Marks

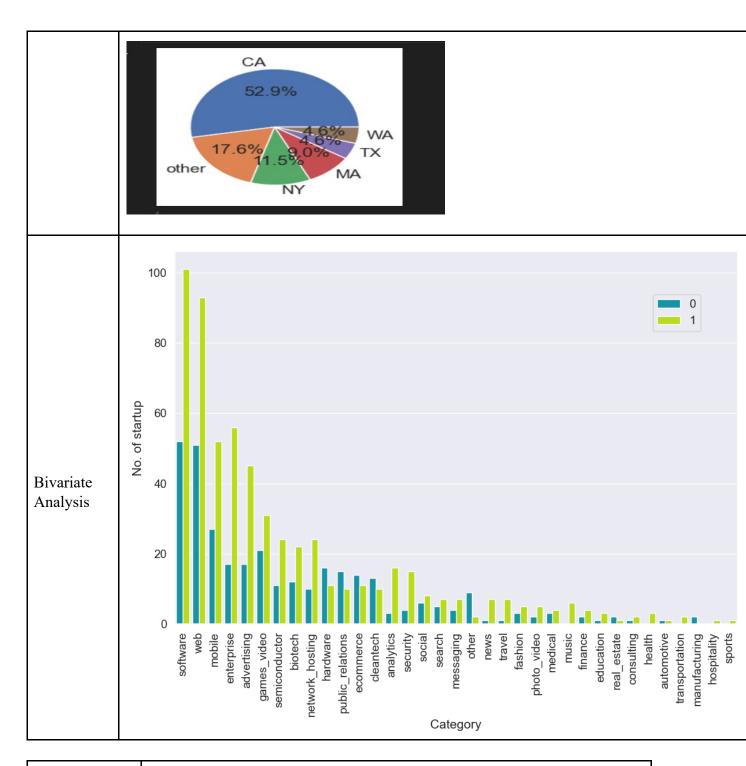
## **Data Exploration and Preprocessing Report**

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	scrij	otion	Į												
	Dimension: 923 rows × 49 columns Descriptive statistics:															
		Unnamed: 0	state_code	latitude	longitude	zip_code	id	city	Unnamed:	name	labels	object_id	has_VC	has_angel	has_roundA	has_roundB
Data Overview	0	1005	CA	42.358880	-71.056820	92101	c:6669	San Diego	NaN	Bandsintown		c6669				0
	1	204	CA	37.238916	-121.973718	95032	c16283	Los Gatos	NaN	TriCipher		c16283				1
	2	1001	CA	32.901049	-117.192656	92121	c65620		San Diego CA 92121	Plixi		c65620				0
	3	738	CA	37.320309	-122.050040	95014	c42668	Cupertino	Cupertino CA 95014			c42668				1
	4	1002	CA	37.779281	-122.419236	94105	c65806	San Francisco	San Francisco CA 94105	Inhale Digital		c65806				0
Univariate Analysis																







0-41:1	
Outliers and	
Anomalies	-





## **Data Preprocessing Code Screenshots** √ 0.1s 95032 c16283 NaN CA 32.901049 -117.192656 CA 37.320309 -122.050040 95014 c:42668 Cupertino c:42668 Inhale Digital Loading Data CA 37.740594 -122.376471 94107 c21343 NaN CoTweet CA 37.408261 -122.015920 94089 c31549 Sunnwale NaN Asempra Technologies Clara CA 95054 95054 c:26702 data['Unnamed: 6'] = data.apply(lambda row: (row.city) + " " + (row.state\_code) + " " +(row.zip\_code) , axis = 1) ✓ 0.0s # Total Missing Values column "Unnamed: 6" totalNull = data['Unnamed: 6'].isnull().sum() print('Total Missing Values Kolom "Unnamed: 6": ', totalNull) Handling Total Missing Values Kolom "Unnamed: 6": 0 Missing Data #Filling missing values of column(closed\_at) data['closed\_at'] = data['closed\_at'].fillna(value="31/12/2013") totalNull = data['closed\_at'].isnull().sum() print('Total Missing Values Kolom "closed\_at": ', totalNull) Total Missing Values Kolom "closed\_at": 0





Data Transformation	<pre>data['status'] = data.status.map({'acquired':1, 'closed':0})  / 0.0s  data['status'].astype(int)  / 0.0s  0</pre>
Feature Engineering	Attached the codes in final submission.
Save Processed Data	-