



## **Data Collection and Preprocessing Phase**

Date	7 June 2024
Team ID	739865
Project Title	prosperity Prognosticator : Machine Learning for Startup Success Prediction
Maximum Marks	6 Marks

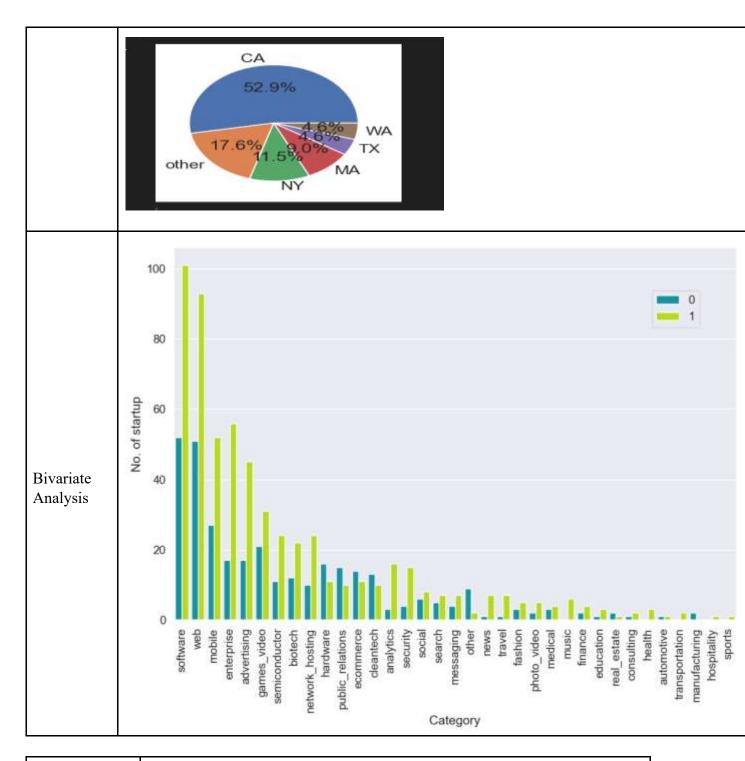
## **Data Exploration and Preprocessing Report**

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	Des	scri	ption	1												
	<u>Dimension:</u> 923 rows × 49 columns <u>Descriptive statistics:</u>															
		Insamed: O	state_code	latitude	longitude	zip_code	id	âty	Unnamed: 6	name	labels	object_id	has VC	has angel	has_roundA	has_roundB
	0	1005	CA	4233800	-71,056020	92101	c6669	San Diego	NeN	Bandsintown		c6669				0
Data Overview	1	204	CA	37,238916	-121973718	95002	c16283	Los Gatos	NaN	Trüpher		c16283				- 1
	2	1001	CA	32900AS	-117.152656	92121	c55620	San Diego	San Diego CA 92121			c65620				0
	3	738	CA	37.326308	-122.050040	95014	c42668	Cupertino	Cuperino CA 95014	Solidore Systems		c42668				
	4	1))(2	CA	37.779281	-122,4192%	94105	cff806	San Francisco	San Francisco CA SA105	Inhale Digital	١.	±586	1	1	0	ı
Univariate Analysis																







Outliers and	
	<del>-</del>
Anomalies	
7 momanes	





## 

## Handling Missing Data

```
dsta['Unmaned: n'] = dsta.apply(lambda row: (row.city) + " " + (row.state_code) + " " + (row.zip_code) , axis = 1)

# Total Missing Values Column 'Unmaned: n'
totalMull = data['Unmaned: n'],isbull().aum()

print('Total Missing Values Kolom 'Unmaned: n': ', totalMull)

# Obe

Total Missing Values Kolom 'Unmaned: n': 0

##Illing missing Values of column(closed_st)
data['closed_st'] - data['closed_st'].fillma(value-'%1/12/2013')
totalMull = data['closed_st'].ismull().sum()

print('total Missing Values Kolom 'closed_st': 0

Total Missing Values Kolom 'closed_st': 0
```





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