



Data Collection and Preprocessing Phase

Date	July, 2024
Team ID	739656
Project Title	Zombie detection using Machine Learning
Maximum Marks	6 Marks

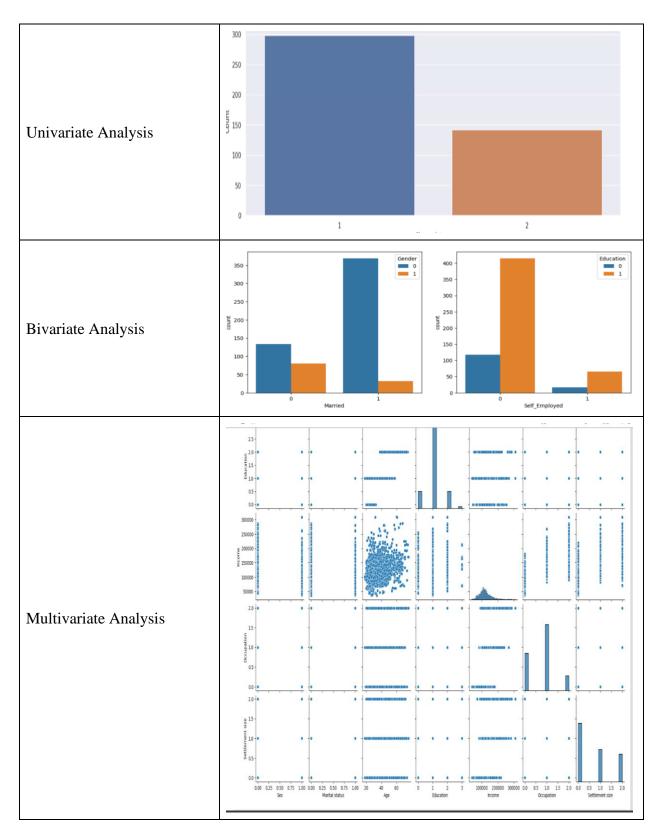
Data Exploration and Preprocessing Template

Identifies data sources, assesses quality issues like missing values and duplicates, and implements resolution plans to ensure accurate and reliable analysis.

Section	De	Description						
		Sex	Marital status	Age	Education	Income	Occupation	Settlement size
	count	2000.000000	2000.000000	2000.000000	2000.00000	2000.000000	2000.000000	2000.000000
	mean	0.457000	0.496500	35.909000	1.03800	120954.419000	0.810500	0.739000
	std	0.498272	0.500113	11.719402	0.59978	38108.824679	0.638587	0.812533
Data Overview	min	0.000000	0.000000	18.000000	0.00000	35832.000000	0.000000	0.000000
	25%	0.000000	0.000000	27.000000	1.00000	97663.250000	0.000000	0.000000
	50%	0.000000	0.000000	33.000000	1.00000	115548.500000	1.000000	1.000000
	75%	1.000000	1.000000	42.000000	1.00000	138072.250000	1.000000	1.000000
	max	1.000000	1.000000	76.000000	3.00000	309364.000000	2.000000	2.000000

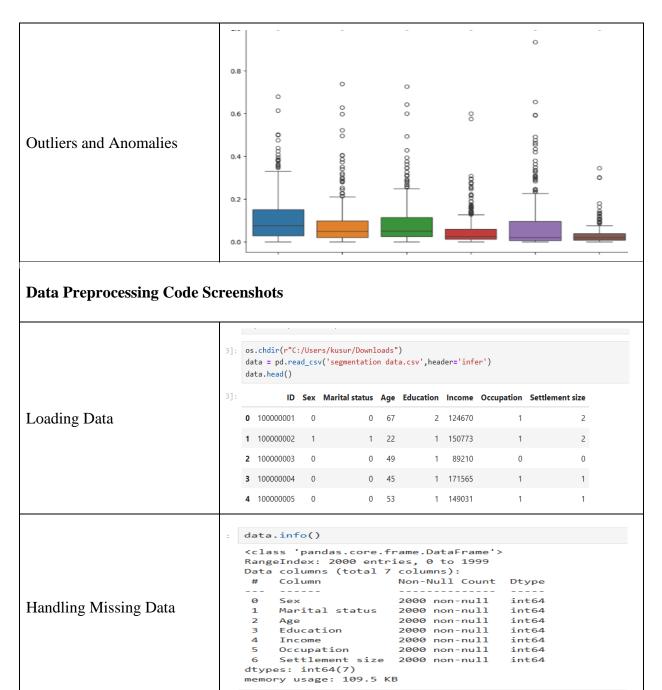
















Data Transformation	<pre>data = minmax_scale(data,feature_range=(0,1)) import pickle pickle.dump(data,open("scale.pk2",'wb')) names = ['Sex','Martial status','Age','Education','Income','Occupation','Settlement size'] data = pd.DataFrame(data,columns=names) wcss = [] for i in range(1, 11): kmeans = sk.cluster.KMeans(n_clusters=i, init='k-means++', random_state=0) kmeans.fit(data) wcss.append(kmeans.inertia_)</pre>			
Feature Engineering	Attached the codes in final submission			
Save Processed Data	-			