



Data Collection and Preprocessing Phase

Date	15 July 2024
Team ID	team-740137
Project Title	Online Payments Fraud Detection
Maximum Marks	6 Marks

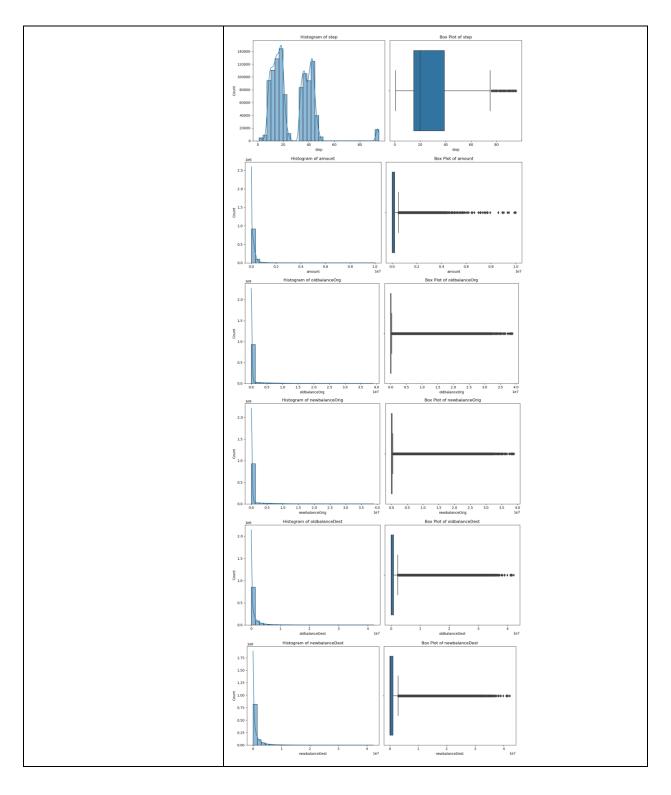
Data Exploration and Preprocessing Report

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	Description
Data Overview	[10] df.describe()
Univariate Analysis	Data Visualization [20]: numerical_columns = df.select_dtypes(includes['int64', 'float64']).columns for column in numerical_columns: plr.sipur(figsize=(12, 5)) # Histogram plr.subplot(12, 2, 3) sns.hisplot(df(column), bins=30, kde=True) plr.subplot(split(12, 2, 2) sns.bisplot(df(column)) plr.title(f'Entitle(Figer Hor of (column)')) plr.title(f'Entitle(Figer Hor of (column)')) plr.title(f'Entitle(Figer Hor of (column)')) # Histogram of step Histogram of step Histogram of step Box Prot of step

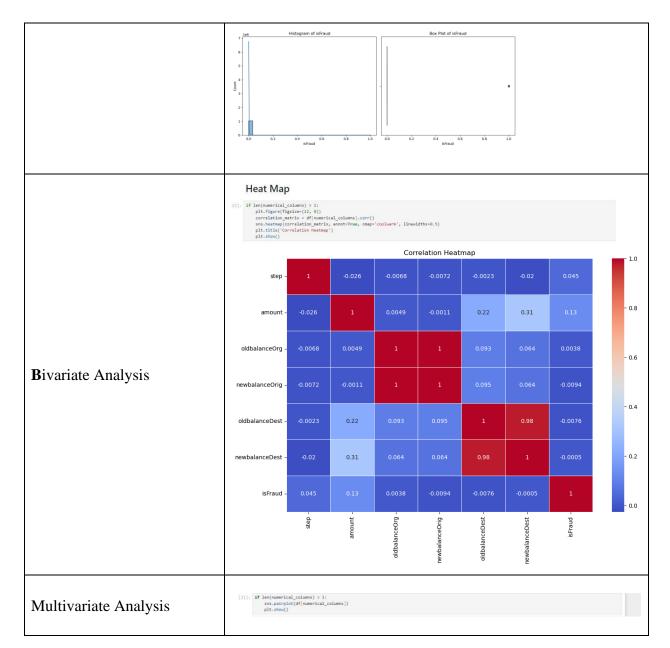






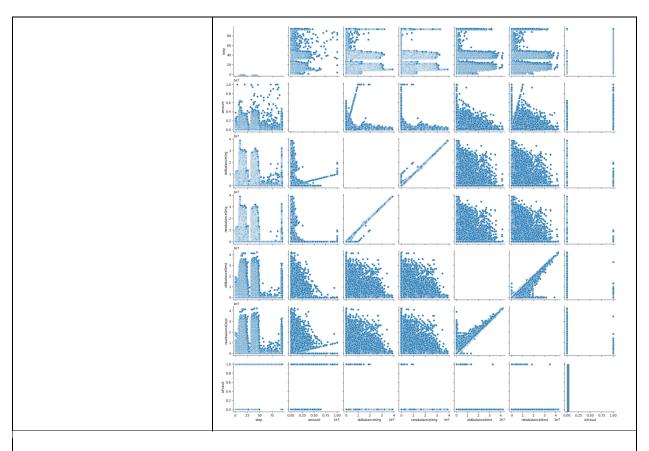












Data Preprocessing Code Screenshots

	[3]:	dfspd.read_csv('OFOdata.csv') df											
	[3]:		tep	type	amount	nameOrig	oldbalanceOrg	newbalanceOrig	nameDest	oldbalanceDest	newbalanceDest	isFraud	isFlaggedFraud
oading Data		0	1	PAYMENT	9839.64	C1231006815	170136.00	160296.36	M1979787155	0.00	0.00	0	0
		1	1	PAYMENT	1864.28	C1666544295	21249.00	19384.72	M2044282225	0.00	0.00	0	0
		2	1	TRANSFER	181.00	C1305486145	181.00	0.00	C553264065	0.00	0.00	1	0
		3	1	CASH_OUT	181.00	C840083671	181.00	0.00	C38997010	21182.00	0.00	1	0
		4	1	PAYMENT	11668.14	C2048537720	41554.00	29885.86	M1230701703	0.00	0.00	0	0
		***		-	-	-	-	-			-	-	
		1048570	95	CASH_OUT	132557.35	C1179511630	479803.00	347245.65	C435674507	484329.37	616886.72	0	0
		1048571	95	PAYMENT	9917.36	C1956161225	90545.00	80627.64	M668364942	0.00	0.00	0	0
		1048572	95	PAYMENT	14140.05	C2037964975	20545.00	6404.95	M1355182933	0.00	0.00	0	0
		1048573	95	PAYMENT	10020.05	C1633237354	90605.00	80584.95	M1964992463	0.00	0.00	0	0
		1048574	95	PAYMENT	11450.03	C1264356443	80584.95	69134.92	M677577406	0.00	0.00	0	0
		1048575 rov	vs × 1	1 columns									









