features_df = pd.read_csv('elliptic_txs_features.csv')



Quick preview print("Features shape:", features_df.shape) display(features_df.head())

print("Classes shape:", classes_df.shape) display(classes_df.head())

→ Features shape: (124130, 167)

	230425980	1	-0.1714692896288031	-0.18466755143291433	-1.2013688016765
0	5530458	1	-0.171484	-0.184668	-1.201
1	232022460	1	-0.172107	-0.184668	-1.201
2	232438397	1	0.163054	1.963790	-0.646
3	230460314	1	1.011523	-0.081127	-1.201
4	230459870	1	0.961040	-0.081127	-1.201

5 rows × 167 columns

Classes shape: (203769, 2)

	txId	class	ıl.
0	230425980	unknown	
1	5530458	unknown	
2	232022460	unknown	
3	232438397	2	
4	230460314	unknown	

Assign proper names to transaction id and time step features
features_df.rename(columns={features_df.columns[0]: 'txId', features_df.columns

print("Features shape:", features_df.shape)
display(features_df.head())

Features shape: (124130, 167)

	txId	timeStep	-0.1714692896288031	-0.18466755143291433	-1.2013688
0	5530458	1	-0.171484	-0.184668	
1	232022460	1	-0.172107	-0.184668	
2	232438397	1	0.163054	1.963790	
3	230460314	1	1.011523	-0.081127	
4	230459870	1	0.961040	-0.081127	

5 rows × 167 columns

Merge the datasets
transactions_df = pd.merge(features_df, classes_df, on='txId', how='left')

print("Merged data shape:", transactions_df.shape)
transactions_df.head()

→ Merged data shape: (124130, 168)

	txId	timeStep	-0.1714692896288031	-0.18466755143291433	-1.2013688
0	5530458	1	-0.171484	-0.184668	
1	232022460	1	-0.172107	-0.184668	
2	232438397	1	0.163054	1.963790	
3	230460314	1	1.011523	-0.081127	
4	230459870	1	0.961040	-0.081127	

5 rows x 168 columns

Drop any rows with missing data
transactions_df = transactions_df.dropna()
display(transactions_df)

→		txId	timeStep	-0.1714692896288031	-0.18466755143291433	-1.20
	0	5530458	1	-0.171484	-0.184668	
	1	232022460	1	-0.172107	-0.184668	
	2	232438397	1	0.163054	1.963790	
	3	230460314	1	1.011523	-0.081127	
	4	230459870	1	0.961040	-0.081127	
	124124	335403844	31	-0.150914	-0.103078	
	124125	376207023	31	-0.164305	-0.132897	
	124126	382945607	31	-0.172439	-0.128652	
	124127	382945604	31	-0.172451	-0.172527	
	124128	382907521	31	-0.169806	-0.127651	

124129 rows × 168 columns

Find out all the values in class
transactions_df['class'].value_counts()

``		count
	class	
	unknown	97019
	2	24126
	1	2984

 \rightarrow

dtype: int64

Filter only transactions where class is 'unknown'
transactions_df = transactions_df[transactions_df['class'] == 'unknown']
display(transactions_df)
transactions_df['class'].value_counts()

-	_	_
	→	$\overline{}$
-	_	_

	txId	timeStep	-0.1714692896288031	-0.18466755143291433	-1.20
0	5530458	1	-0.171484	-0.184668	
1	232022460	1	-0.172107	-0.184668	
3	230460314	1	1.011523	-0.081127	
4	230459870	1	0.961040	-0.081127	
5	230333930	1	-0.171264	-0.184668	
124123	341106370	31	-0.171406	-0.127651	
124124	335403844	31	-0.150914	-0.103078	
124125	376207023	31	-0.164305	-0.132897	
124127	382945604	31	-0.172451	-0.172527	
124128	382907521	31	-0.169806	-0.127651	

97019 rows × 168 columns

count

unknown 97019

dtype: int64

Drop the class column/feature
transactions_df.drop(columns=['class'], inplace=True)
display(transactions_df)

	txId	timeStep	-0.1714692896288031	-0.18466755143291433	-1.20
0	5530458	1	-0.171484	-0.184668	
1	232022460	1	-0.172107	-0.184668	
3	230460314	1	1.011523	-0.081127	
4	230459870	1	0.961040	-0.081127	
5	230333930	1	-0.171264	-0.184668	
124123	341106370	31	-0.171406	-0.127651	
124124	335403844	31	-0.150914	-0.103078	
124125	376207023	31	-0.164305	-0.132897	
124127	382945604	31	-0.172451	-0.172527	
124128	382907521	31	-0.169806	-0.127651	
	1 3 4 5 124123 124124 124125 124127	 5530458 232022460 230460314 230459870 230333930 	0 5530458 1 1 232022460 1 3 230460314 1 4 230459870 1 5 2303333930 1 124123 341106370 31 124124 335403844 31 124125 376207023 31 124127 382945604 31	0 5530458 1 -0.171484 1 232022460 1 -0.172107 3 230460314 1 1.011523 4 230459870 1 0.961040 5 230333930 1 -0.171264 124123 341106370 31 -0.171406 124124 335403844 31 -0.150914 124125 376207023 31 -0.164305 124127 382945604 31 -0.172451	1 232022460 1 -0.172107 -0.184668 3 230460314 1 1.011523 -0.081127 4 230459870 1 0.961040 -0.081127 5 230333930 1 -0.171264 -0.184668 124123 341106370 31 -0.171406 -0.127651 124124 335403844 31 -0.150914 -0.103078 124125 376207023 31 -0.164305 -0.132897 124127 382945604 31 -0.172451 -0.172527

97019 rows × 167 columns

Change column names back to original
transactions_df.rename(columns={transactions_df.columns[0]: '230425980', transa
display(transactions_df)

→		230425980	1	-0.1714692896288031	-0.18466755143291433	-1.20136880
	0	5530458	1	-0.171484	-0.184668	
	1	232022460	1	-0.172107	-0.184668	
	3	230460314	1	1.011523	-0.081127	
	4	230459870	1	0.961040	-0.081127	
	5	230333930	1	-0.171264	-0.184668	
	124123	341106370	31	-0.171406	-0.127651	
	124124	335403844	31	-0.150914	-0.103078	
	124125	376207023	31	-0.164305	-0.132897	
	124127	382945604	31	-0.172451	-0.172527	
	124128	382907521	31	-0.169806	-0.127651	
	07010 #5					

97019 rows × 167 columns

Save and export entire deployment data
transactions_df.to_csv('all_deployment_data.csv', index=False)
files.download('all_deployment_data.csv')



Save and export smaller sample dataset
transactions_df.head(300).to_csv('sample_deployment_data.csv', index=False)
files.download('sample_deployment_data.csv')

