

```
In [134...]: import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
```

```
In [135...]: customer = pd.read_csv("Customer_Master.csv")
transaction = pd.read_csv("transactions.csv")
```

```
In [136...]: customer.head(2)
```

```
Out[136...]:
```

	customer_id	age_group	home_location	credit_score	account_age_years	account_type
<b>0</b>	1	26-35	Palpa	714	13	Savings
<b>1</b>	2	26-35	Kathmandu	607	7	Savings

```
In [137...]: transaction.head(2)
```

```
Out[137...]:
```

	transaction_id	customer_id	transaction_date	transaction_type	amount	location
<b>0</b>	TXN20241124104326	727	11/24/2024 15:29	Inward Remittance	13925.72	Nawalparasi
<b>1</b>	TXN20241204130277	539	12/4/2024 5:26	ATM Withdrawal	25037.35	Kathmandu

2 rows × 28 columns

## Find intersecting columns

```
In [138...]: duplicate_cols = set(customer.columns).intersection(set(transaction.columns))
duplicate_cols
```

```
Out[138...]: {'account_age_years',
 'account_type',
 'age_group',
 'avg_monthly_income',
 'credit_score',
 'customer_id',
 'employment_status',
 'home_location',
 'international_activity',
 'mobile_banking_user',
 'risk_score',
 'transaction_frequency'}
```

```
In [139...]: duplicate_cols = duplicate_cols - {'customer_id'}
duplicate_cols
```

```
Out[139... {'account_age_years',
'account_type',
'age_group',
'avg_monthly_income',
'credit_score',
'employment_status',
'home_location',
'international_activity',
'mobile_banking_user',
'risk_score',
'transaction_frequency'}
```

```
In [140... transaction = transaction.drop(columns= duplicate_cols)
```

```
In [141... #check duplicate again
duplicate_cols = set(customer.columns).intersection(set(transaction.columns))
duplicate_cols
```

```
Out[141... {'customer_id'}
```

## merge these datasets

```
In [142... dataset = customer.merge(transaction, on="customer_id", how="inner")
```

```
In [143... dataset.head(5)
```

```
Out[143...   customer_id  age_group  home_location  credit_score  account_age_years  account_type
0             1      26-35        Palpa          714              13       Savings
1             1      26-35        Palpa          714              13       Savings
2             1      26-35        Palpa          714              13       Savings
3             1      26-35        Palpa          714              13       Savings
4             1      26-35        Palpa          714              13       Savings
```

5 rows × 33 columns

```
In [144... #check for null
dataset.isna().sum()
```

```
Out[144...]:
```

customer_id	0
age_group	0
home_location	0
credit_score	0
account_age_years	0
account_type	0
avg_monthly_income	0
mobile_banking_user	0
primary_device	14202
primary_os	14202
primary_browser	14202
avg_transaction_amount	0
transaction_frequency	0
employment_status	0
preferred_transaction_types	0
international_activity	0
risk_score	0
transaction_id	0
transaction_date	0
transaction_type	0
amount	0
location	0
ip_address	0
device	79991
os	79963
browser	79967
attempt_sequence	0
time_of_day	0
transaction_velocity	0
status	0
auth_method	0
amount_deviation	0
is_suspicious	0

dtype: int64

```
In [145...]: dataset.shape
```

```
Out[145...]: (103500, 33)
```

```
In [146...]: #device, os and browser have about 77% of null data so we drop those columns  
dataset.drop(columns=["device", "os", "browser", "attempt_sequence"], inplace=True)
```

```
In [147...]: dataset.duplicated().sum()
```

```
Out[147...]: np.int64(0)
```

```
In [148...]: dataset.isna().sum()
```

```
Out[148...]:
```

customer_id	0
age_group	0
home_location	0
credit_score	0
account_age_years	0
account_type	0
avg_monthly_income	0
mobile_banking_user	0
primary_device	14202
primary_os	14202
primary_browser	14202
avg_transaction_amount	0
transaction_frequency	0
employment_status	0
preferred_transaction_types	0
international_activity	0
risk_score	0
transaction_id	0
transaction_date	0
transaction_type	0
amount	0
location	0
ip_address	0
time_of_day	0
transaction_velocity	0
status	0
auth_method	0
amount_deviation	0
is_suspicious	0

dtype: int64

```
In [149...]:
```

```
#now filling values with mode for 3 remaining columns
dataset["primary_device"].fillna(dataset["primary_device"].mode()[0], inplace= True)
dataset["primary_os"].fillna(dataset["primary_os"].mode()[0], inplace= True)
dataset["primary_browser"].fillna(dataset["primary_browser"].mode()[0], inplace= Tr
```

```
C:\Users\Sandesh Khatiwada\AppData\Local\Temp\ipykernel_11972\1276973883.py:2: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained assignment using an inplace method.
```

The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting values always behaves as a copy.

For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[col].method(value) instead, to perform the operation inplace on the original object.

```
dataset["primary_device"].fillna(dataset["primary_device"].mode()[0], inplace= True)
```

```
C:\Users\Sandesh Khatiwada\AppData\Local\Temp\ipykernel_11972\1276973883.py:3: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained assignment using an inplace method.
```

The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting values always behaves as a copy.

For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[col].method(value) instead, to perform the operation inplace on the original object.

```
dataset["primary_os"].fillna(dataset["primary_os"].mode()[0], inplace= True)
```

```
C:\Users\Sandesh Khatiwada\AppData\Local\Temp\ipykernel_11972\1276973883.py:4: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained assignment using an inplace method.
```

The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting values always behaves as a copy.

For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[col].method(value) instead, to perform the operation inplace on the original object.

```
dataset["primary_browser"].fillna(dataset["primary_browser"].mode()[0], inplace= True)
```

In [150...]: dataset.isna().sum().sum()

Out[150...]: np.int64(0)

In [151...]: dataset.head(3)

Out[151...]

	customer_id	age_group	home_location	credit_score	account_age_years	account_type
0	1	26-35	Palpa	714	13	Savings
1	1	26-35	Palpa	714	13	Savings
2	1	26-35	Palpa	714	13	Savings

3 rows × 29 columns

## Comparing different sorts of features

In [152...]

```
# visualizing which transaction type fraud is the most
count_and_rate = (
    dataset.groupby('transaction_type')['is_suspicious']
    .agg(['sum', 'count', 'mean'])
    .sort_values(by='mean', ascending=False)
)

print(count_and_rate)
```

transaction_type	sum	count	mean
Mobile Banking Transfer	1425	4775	0.298429
ATM Withdrawal	837	4947	0.169193
Wallet Load - eSewa	608	4514	0.134692
QR Payment	534	4382	0.121862
Mobile Banking Bill Payment	546	4652	0.117369
Branch Deposit	343	4161	0.082432
Electricity Bill Payment	154	3843	0.040073
Cheque Deposit	144	3626	0.039713
Water Bill Payment	146	3822	0.038200
POS Transaction	141	3836	0.036757
Internet Bill Payment	140	3877	0.036110
Outward Remittance	135	3849	0.035074
Hotel Booking Payment	139	4021	0.034569
Airline Ticket Payment	123	3840	0.032031
Interest Credit	119	3722	0.031972
Mobile Recharge	133	4245	0.031331
School Fee Payment	129	4159	0.031017
Inward Remittance	133	4404	0.030200
Wallet Load - IME Pay	111	3687	0.030106
Wallet Load - Khalti	124	4166	0.029765
Insurance Premium Payment	132	4437	0.029750
Loan Payment	128	4361	0.029351
Cheque Payment	118	4116	0.028669
Branch Withdrawal	111	4042	0.027462
Cable TV Payment	108	4016	0.026892

In [153...]

```
plt.figure(figsize=(70,20))
sns.barplot(
    data=count_and_rate,
```

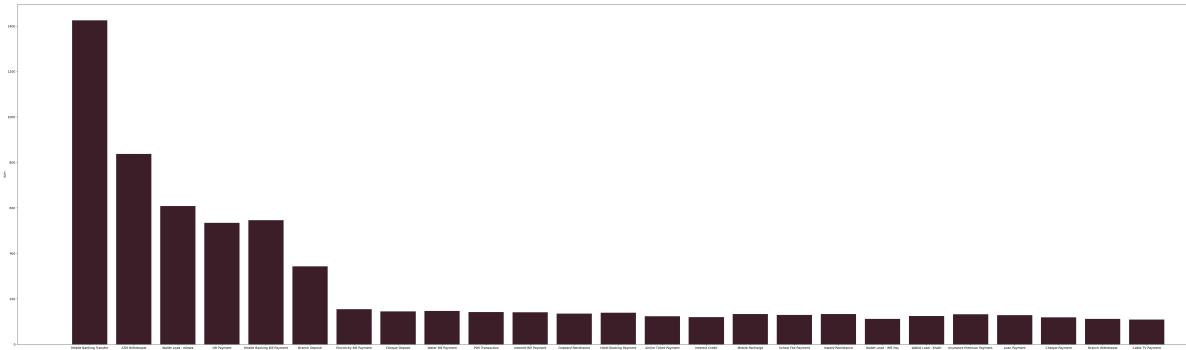
```

        x = 'transaction_type',
        y = 'sum',
        color = '#451828'
    )
plt.plot()

```

Out[153...]

[]



In [154...]

```

# time of day vs fraud
fraud_by_time = (
    dataset.groupby('time_of_day')['is_suspicious']
    .agg(['sum', 'mean'])
    .sort_values(by = 'sum', ascending=False)
    .reset_index()
)

print(fraud_by_time)

```

	time_of_day	sum	mean
0	Night	1907	0.137115
1	Business Hours	1434	0.042668
2	Late Night	1401	0.054545
3	Early Morning	1031	0.077864
4	Evening	988	0.057920

In [155...]

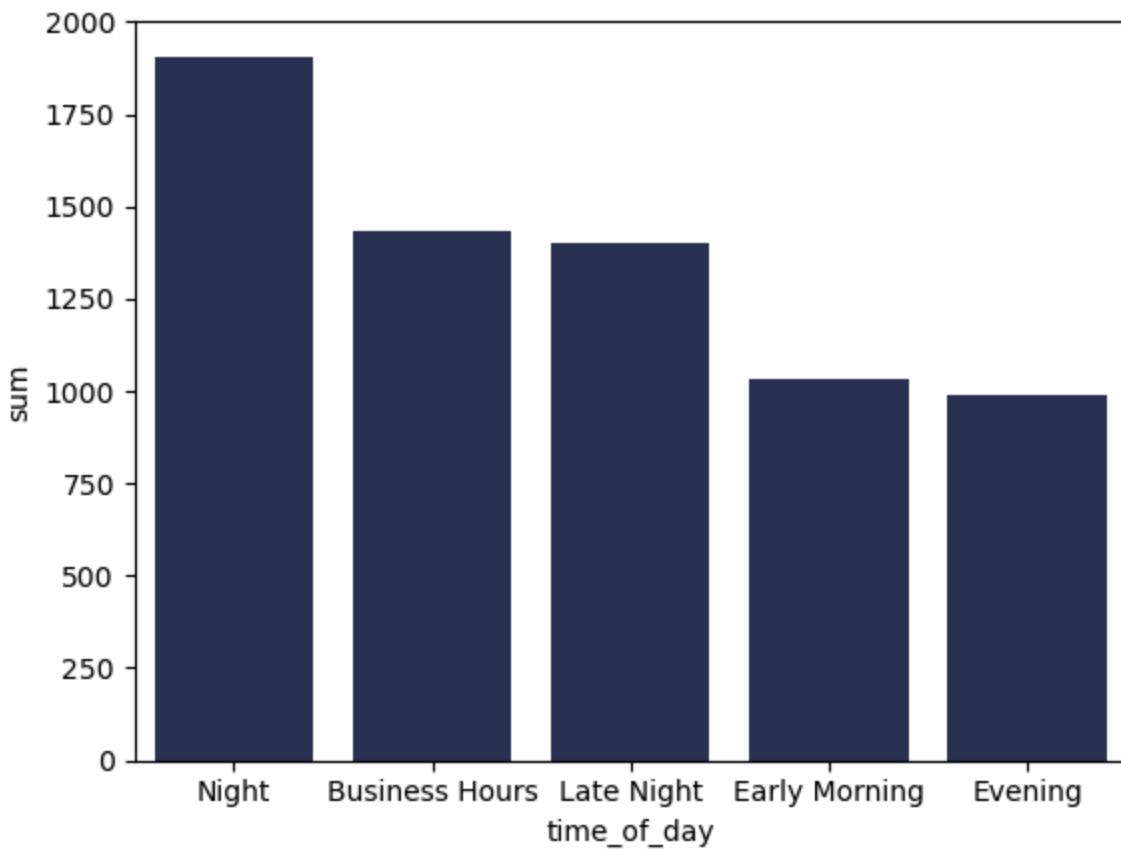
```

sns.barplot(
    data = fraud_by_time,
    x = 'time_of_day',
    y = 'sum',
    color= '#252d59'
)

```

Out[155...]

<Axes: xlabel='time\_of\_day', ylabel='sum'>



In [156]:

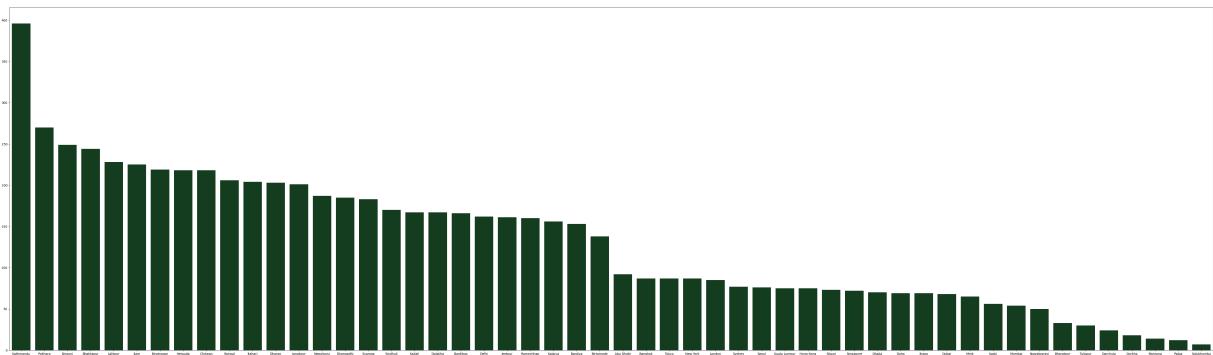
```
#Location vs fraud
fraud_by_location = (
    dataset.groupby('location')['is_suspicious']
    .agg(['sum', 'mean'])
    .sort_values(by = 'sum', ascending= False)
)

print(fraud_by_location)
```

	sum	mean
location		
Kathmandu	396	0.020643
Pokhara	270	0.032032
Birgunj	249	0.057546
Bhaktapur	244	0.051597
Lalitpur	228	0.051213
Ilam	225	0.069103
Biratnagar	219	0.045540
Hetauda	218	0.062662
Chitwan	218	0.069338
Butwal	206	0.076637
Itahari	204	0.080473
Dharan	203	0.058233
Janakpur	201	0.076021
Nepalgunj	187	0.074118
Dhangadhi	185	0.088900
Syangja	183	0.197198
Sindhuli	170	0.184783
Kailali	167	0.170234
Dolakha	167	0.178419
Bardibas	166	0.180043
Delhi	162	1.000000
Jeetpur	161	0.177508
Ramechhap	160	0.170576
Kalaiya	156	0.163522
Bardiya	153	0.160042
Birtamode	138	0.154190
Abu Dhabi	92	1.000000
Bangkok	87	1.000000
Tokyo	87	1.000000
New York	87	1.000000
London	85	1.000000
Sydney	77	1.000000
Seoul	76	1.000000
Kuala Lumpur	75	1.000000
Hong Kong	75	1.000000
Silguri	73	1.000000
Singapore	72	1.000000
Dhaka	70	1.000000
Doha	69	1.000000
Jhapa	69	0.015732
Dubai	68	1.000000
Mirik	65	1.000000
Kaski	56	0.014308
Mumbai	54	1.000000
Nawalparasi	50	0.016345
Bharatpur	33	0.016658
Tulsipur	30	0.012077
Darchula	24	0.016690
Gorkha	18	0.014458
Mustang	14	0.018767
Palpa	12	0.008708
Solukhumbu	7	0.017812

```
In [157...]
```

```
#figure for this
plt.figure(figsize=(70,20))
sns.barplot(data=fraud_by_location, x= 'location', y = 'sum', color='#0f451d')
plt.show()
```



```
In [158...]
```

```
#fraud by age
dataset['age_group'] = pd.Categorical(
    dataset['age_group'],
    ordered=True,
    categories=['18-25', '26-35', '36-45', '46-55', '56+']
)

dataset.groupby('age_group')['is_suspicious'].sum()
```

C:\Users\Sandesh Khatiwada\AppData\Local\Temp\ipykernel\_11972\3527396111.py:8: FutureWarning: The default of observed=False is deprecated and will be changed to True in a future version of pandas. Pass observed=False to retain current behavior or observed=True to adopt the future default and silence this warning.

```
dataset.groupby('age_group')['is_suspicious'].sum()
```

```
Out[158...]
```

```
age_group
18-25      1070
26-35      2032
36-45      1526
46-55      1104
56+         0
Name: is_suspicious, dtype: int64
```

```
In [159...]
```

```
#make graph for this
# aggregate first
age_fraud = dataset.groupby('age_group', as_index=False)['is_suspicious'].sum()

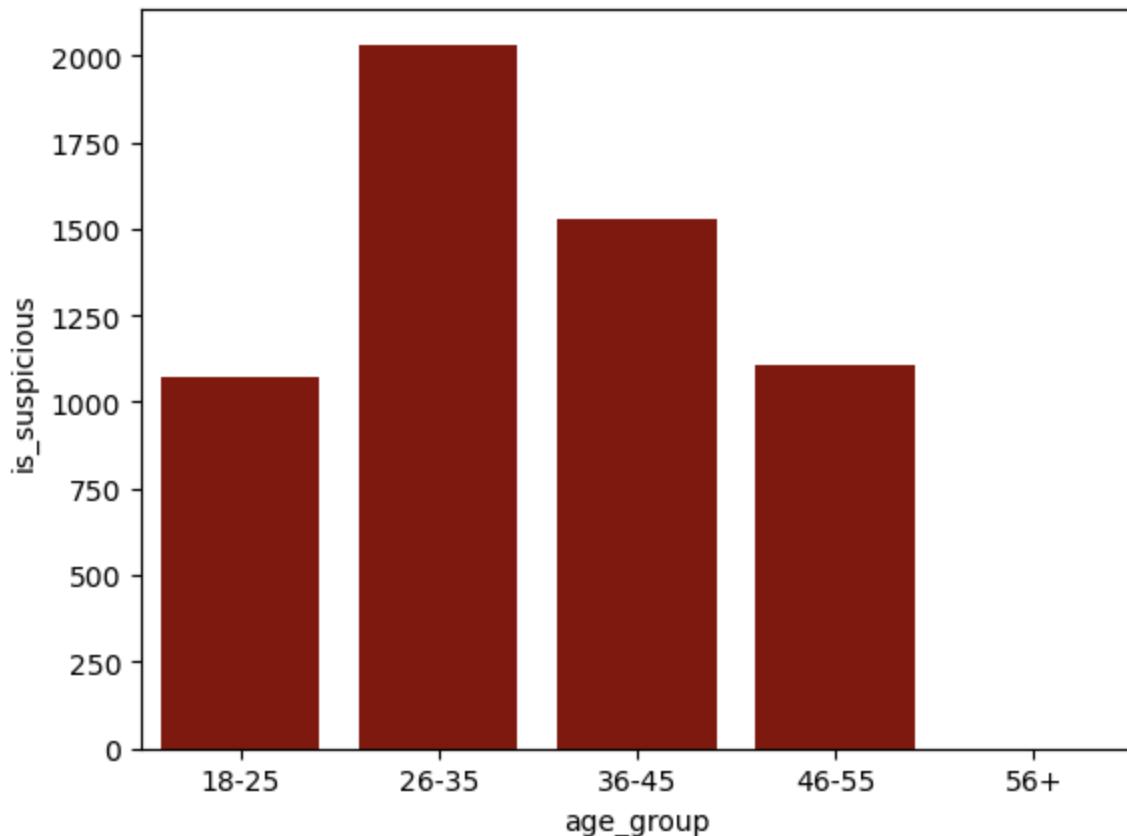
# plot
sns.barplot(data=age_fraud, x='age_group', y='is_suspicious', color='#8f0c00')
```

C:\Users\Sandesh Khatiwada\AppData\Local\Temp\ipykernel\_11972\143820651.py:3: FutureWarning: The default of observed=False is deprecated and will be changed to True in a future version of pandas. Pass observed=False to retain current behavior or observed=True to adopt the future default and silence this warning.

```
age_fraud = dataset.groupby('age_group', as_index=False)['is_suspicious'].sum()
```

```
Out[159...]
```

```
<Axes: xlabel='age_group', ylabel='is_suspicious'>
```



In [ ]:

```
#comparing fraud against various features
combined = (
    dataset.groupby(['transaction_type', 'time_of_day', 'location', 'age_group'])['
        .agg(['sum', 'count'])
        .sort_values(by='sum', ascending=False)
    )

print(combined)
```

C:\Users\Sandesh Khatiwada\AppData\Local\Temp\ipykernel\_11972\318046994.py:3: Future Warning: The default of observed=False is deprecated and will be changed to True in a future version of pandas. Pass observed=False to retain current behavior or observed=True to adopt the future default and silence this warning.

```
dataset.groupby(['transaction_type', 'time_of_day', 'location', 'age_group'])['is_
suspicious']
```

					sum	count
transaction_type	time_of_day	location	age_group			
Mobile Banking Transfer	Night	Butwal	26-35	13	18	
		Syangja	26-35	13	14	
Wallet Load - eSewa	Night	Lalitpur	26-35	12	18	
ATM Withdrawal	Night	Birgunj	36-45	12	13	
Mobile Banking Transfer	Night	Dhangadhi	26-35	10	12	
...				...	...	
Airline Ticket Payment	Night	London	26-35	0	0	
			36-45	0	0	
ATM Withdrawal	Business Hours	Butwal	56+	0	0	
		Chitwan	18-25	0	6	
Water Bill Payment	Night	Sindhuli	36-45	0	0	

[32500 rows x 2 columns]

```
In [161...]: top5 = combined.sort_values(by='sum', ascending=False).head(5)
top5
```

```
Out[161...]:
```

					sum	count
transaction_type	time_of_day	location	age_group			
<b>Mobile Banking Transfer</b>	<b>Night</b>	<b>Butwal</b>	<b>26-35</b>	13	18	
		<b>Syangja</b>	<b>26-35</b>	13	14	
<b>Wallet Load - eSewa</b>	<b>Night</b>	<b>Lalitpur</b>	<b>26-35</b>	12	18	
<b>ATM Withdrawal</b>	<b>Night</b>	<b>Birgunj</b>	<b>36-45</b>	12	13	
<b>Mobile Banking Transfer</b>	<b>Night</b>	<b>Dhangadhi</b>	<b>26-35</b>	10	12	

```
In [162...]: top5 = combined.head(5).reset_index()
top5
```

```
Out[162...]:
```

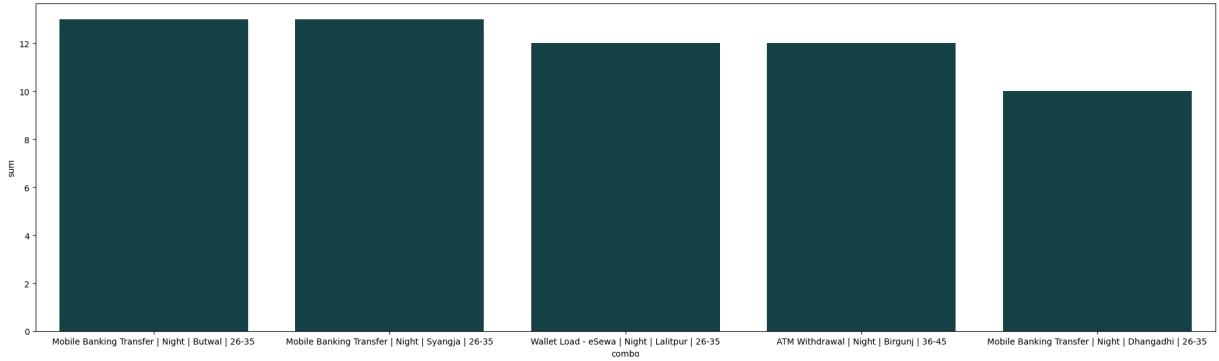
	transaction_type	time_of_day	location	age_group	sum	count
<b>0</b>	Mobile Banking Transfer	Night	Butwal	26-35	13	18
<b>1</b>	Mobile Banking Transfer	Night	Syangja	26-35	13	14
<b>2</b>	Wallet Load - eSewa	Night	Lalitpur	26-35	12	18
<b>3</b>	ATM Withdrawal	Night	Birgunj	36-45	12	13
<b>4</b>	Mobile Banking Transfer	Night	Dhangadhi	26-35	10	12

```
In [163...]: # convert everything to string before concatenation
top5 = top5.astype({
    "transaction_type": "string",
    "time_of_day": "string",
    "location": "string",
    "age_group": "string"
})
```

```
top5["combo"] = (
    top5["transaction_type"] + " | " +
    top5["time_of_day"] + " | " +
    top5["location"] + " | " +
    top5["age_group"]
)
```

```
In [164...]: plt.figure(figsize=(25,7))
sns.barplot(data=top5, x="combo", y="sum", color="#0f4a4f")
# plt.xticks(rotation=45)
```

```
Out[164...]: <Axes: xlabel='combo', ylabel='sum'>
```



```
In [ ]:
```

```
In [165...]: for col in dataset.columns:
    print("unique values of dataset[", col, "]: ", dataset[col].unique(), "\n")
```

unique values of dataset[ customer_id ]:														[	1	2	3	4	5	6	7	8
9	10	11	12	13	14																	
15	16	17	18	19	20	21	22	23	24	25	26	27	28									
29	30	31	32	33	34	35	36	37	38	39	40	41	42									
43	44	45	46	47	48	49	50	51	52	53	54	55	56									
57	58	59	60	61	62	63	64	65	66	67	68	69	70									
71	72	73	74	75	76	77	78	79	80	81	82	83	84									
85	86	87	88	89	90	91	92	93	94	95	96	97	98									
99	100	101	102	103	104	105	106	107	108	109	110	111	112									
113	114	115	116	117	118	119	120	121	122	123	124	125	126									
127	128	129	130	131	132	133	134	135	136	137	138	139	140									
141	142	143	144	145	146	147	148	149	150	151	152	153	154									
155	156	157	158	159	160	161	162	163	164	165	166	167	168									
169	170	171	172	173	174	175	176	177	178	179	180	181	182									
183	184	185	186	187	188	189	190	191	192	193	194	195	196									
197	198	199	200	201	202	203	204	205	206	207	208	209	210									
211	212	213	214	215	216	217	218	219	220	221	222	223	224									
225	226	227	228	229	230	231	232	233	234	235	236	237	238									
239	240	241	242	243	244	245	246	247	248	249	250	251	252									
253	254	255	256	257	258	259	260	261	262	263	264	265	266									
267	268	269	270	271	272	273	274	275	276	277	278	279	280									
281	282	283	284	285	286	287	288	289	290	291	292	293	294									
295	296	297	298	299	300	301	302	303	304	305	306	307	308									
309	310	311	312	313	314	315	316	317	318	319	320	321	322									
323	324	325	326	327	328	329	330	331	332	333	334	335	336									
337	338	339	340	341	342	343	344	345	346	347	348	349	350									
351	352	353	354	355	356	357	358	359	360	361	362	363	364									
365	366	367	368	369	370	371	372	373	374	375	376	377	378									
379	380	381	382	383	384	385	386	387	388	389	390	391	392									
393	394	395	396	397	398	399	400	401	402	403	404	405	406									
407	408	409	410	411	412	413	414	415	416	417	418	419	420									
421	422	423	424	425	426	427	428	429	430	431	432	433	434									
435	436	437	438	439	440	441	442	443	444	445	446	447	448									
449	450	451	452	453	454	455	456	457	458	459	460	461	462									
463	464	465	466	467	468	469	470	471	472	473	474	475	476									
477	478	479	480	481	482	483	484	485	486	487	488	489	490									
491	492	493	494	495	496	497	498	499	500	501	502	503	504									
505	506	507	508	509	510	511	512	513	514	515	516	517	518									
519	520	521	522	523	524	525	526	527	528	529	530	531	532									
533	534	535	536	537	538	539	540	541	542	543	544	545	546									
547	548	549	550	551	552	553	554	555	556	557	558	559	560									
561	562	563	564	565	566	567	568	569	570	571	572	573	574									
575	576	577	578	579	580	581	582	583	584	585	586	587	588									
589	590	591	592	593	594	595	596	597	598	599	600	601	602									
603	604	605	606	607	608	609	610	611	612	613	614	615	616									
617	618	619	620	621	622	623	624	625	626	627	628	629	630									
631	632	633	634	635	636	637	638	639	640	641	642	643	644									
645	646	647	648	649	650	651	652	653	654	655	656	657	658									
659	660	661	662	663	664	665	666	667	668	669	670	671	672									
673	674	675	676	677	678	679	680	681	682	683	684	685	686									
687	688	689	690	691	692	693	694	695	696	697	698	699	700									
701	702	703	704	705	706	707	708	709	710	711	712	713	714									
715	716	717	718	719	720	721	722	723	724	725	726	727	728									
729	730	731	732	733	734	735	736	737	738	739	740	741	742									
743	744	745	746	747	748	749	750	751	752	753	754	755	756									
757	758	759	760	761	762	763	764	765	766	767	768	769	770									

```
771 772 773 774 775 776 777 778 779 780 781 782 783 784  
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unique values of dataset[ age_group ]: ['26-35', NaN, '46-55', '18-25', '36-45']  
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474 633 466 762 823 590 687 740 585 769 527 579 757 561 772 684 644 725  
619 667 528 789 490 691 588 736 532 657 596 634 649 547 544 735 513 545  
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754 601 711 503 508 753 632 553 795 510 842 586 724 699 685 755 654 777  
702 551 709 793 673 759 614 439 650 818 768 635 718 773 549 784 441 576  
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unique values of dataset[ account_age_years ]: [13 7 10 8 4 1 6 12 5 14 11 15  
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"['Branch Withdrawal', 'Branch Deposit', 'Mobile Banking Bill Payment', 'Insurance Premium Payment', 'Interest Credit', 'Electricity Bill Payment']"  
"['Mobile Banking Bill Payment', 'Insurance Premium Payment', 'Wallet Load - eSewa', 'Mobile Recharge']"  
"['Wallet Load - IME Pay', 'Mobile Banking Bill Payment', 'Water Bill Payment', 'Insurance Premium Payment', 'Inward Remittance', 'POS Transaction', 'Cheque Deposit', 'Interest Credit']"  
"['Hotel Booking Payment', 'Mobile Recharge', 'Inward Remittance', 'Cheque Deposit', 'Mobile Banking Bill Payment', 'Loan Payment']"  
"['Airline Ticket Payment', 'School Fee Payment', 'Internet Bill Payment', 'Inward Remittance', 'Cheque Deposit', 'Wallet Load - Khalti', 'Mobile Recharge', 'QR Payment']"  
"['School Fee Payment', 'Cheque Payment', 'Outward Remittance', 'Inward Remittance', 'Airline Ticket Payment']"  
"['School Fee Payment', 'Branch Deposit', 'Airline Ticket Payment']"  
"['Inward Remittance', 'Outward Remittance', 'Loan Payment', 'POS Transaction']"  
"['Cable TV Payment', 'Mobile Banking Transfer', 'Interest Credit', 'School Fee Payment', 'Wallet Load - IME Pay', 'Electricity Bill Payment', 'Mobile Recharge']"  
"['Wallet Load - Khalti', 'QR Payment', 'School Fee Payment', 'Wallet Load - eSewa']"

"[ 'POS Transaction', 'Mobile Banking Bill Payment', 'Inward Remittance', 'Mobile Recharge', 'Cheque Deposit', 'Wallet Load - Khalti', 'Airline Ticket Payment', 'Cheque Payment' ]"

"[ 'Wallet Load - IME Pay', 'Loan Payment', 'Insurance Premium Payment', 'Mobile Banking Bill Payment', 'Hotel Booking Payment', 'Cable TV Payment', 'Water Bill Payment' ]"

"[ 'Insurance Premium Payment', 'Water Bill Payment', 'Branch Deposit', 'Loan Payment', 'School Fee Payment', 'ATM Withdrawal', 'Electricity Bill Payment', 'Cable TV Payment' ]"

"[ 'Insurance Premium Payment', 'School Fee Payment', 'Airline Ticket Payment', 'POS Transaction', 'Inward Remittance', 'Hotel Booking Payment' ]"

"[ 'Wallet Load - Khalti', 'Internet Bill Payment', 'Mobile Banking Bill Payment', 'Cheque Payment', 'ATM Withdrawal', 'Cable TV Payment', 'Branch Deposit' ]"

"[ 'Wallet Load - eSewa', 'School Fee Payment', 'QR Payment', 'Wallet Load - IME Pay', 'Internet Bill Payment', 'Insurance Premium Payment', 'POS Transaction' ]"

"[ 'Insurance Premium Payment', 'Cable TV Payment', 'Mobile Banking Transfer', 'Hotel Booking Payment' ]"

"[ 'Airline Ticket Payment', 'QR Payment', 'Cable TV Payment', 'Water Bill Payment' ]"

"[ 'Cheque Payment', 'Mobile Recharge', 'Wallet Load - Khalti', 'Outward Remittance', 'Mobile Banking Bill Payment', 'School Fee Payment', 'ATM Withdrawal', 'Inward Remittance' ]"

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"[ 'Wallet Load - eSewa', 'School Fee Payment', 'Water Bill Payment', 'Loan Payment', 'Interest Credit', 'Mobile Banking Bill Payment' ]"

"[ 'Insurance Premium Payment', 'QR Payment', 'Wallet Load - eSewa', 'ATM Withdrawal', 'Cheque Deposit', 'Branch Deposit', 'Mobile Banking Transfer' ]"

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"[ 'Cheque Payment', 'Airline Ticket Payment', 'Cable TV Payment' ]"

"[ 'Cable TV Payment', 'Water Bill Payment', 'Loan Payment' ]"

"[ 'Loan Payment', 'Mobile Recharge', 'Wallet Load - Khalti', 'Mobile Banking Bill Payment', 'Cable TV Payment', 'Branch Deposit', 'Interest Credit' ]"

"[ 'Insurance Premium Payment', 'Outward Remittance', 'ATM Withdrawal', 'Cheque Payment', 'Wallet Load - IME Pay', 'Wallet Load - Khalti', 'QR Payment', 'Interest Credit' ]"

"[ 'Mobile Banking Bill Payment', 'Mobile Recharge', 'School Fee Payment', 'POS Transaction' ]"

"[ 'Internet Bill Payment', 'Mobile Banking Bill Payment', 'Cheque Payment', 'Electricity Bill Payment', 'School Fee Payment', 'Cable TV Payment' ]"

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"[ 'ATM Withdrawal', 'Cable TV Payment', 'POS Transaction', 'Internet Bill Payment', 'QR Payment', 'Hotel Booking Payment', 'Cheque Payment', 'Cheque Deposit' ]"

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"[ 'Outward Remittance', 'Insurance Premium Payment', 'Cable TV Payment', 'Mobile Banking Bill Payment' ]"

"[ 'Hotel Booking Payment', 'Internet Bill Payment', 'Cheque Payment', 'Mobile Banking Bill Payment', 'QR Payment', 'Airline Ticket Payment', 'Cable TV Payment' ]"

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    "[ 'ATM Withdrawal', 'Insurance Premium Payment', 'Electricity Bill Payment', 'Mobile Recharge', 'Cheque Deposit', 'Wallet Load - Khalti']"  
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Recharge']"]  
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'Wallet Load - eSewa', 'Mobile Recharge', 'Wallet Load - IME Pay', 'Interest Credi  
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"['Wallet Load - eSewa', 'Wallet Load - IME Pay', 'Wallet Load - Khalti', 'ATM Withdrawal', 'Mobile Recharge', 'Water Bill Payment', 'Mobile Banking Transfer', 'Internet Bill Payment']"

"['Mobile Recharge', 'School Fee Payment', 'Branch Withdrawal', 'Loan Payment', 'Mobile Banking Transfer']"

"['Mobile Banking Bill Payment', 'Inward Remittance', 'Wallet Load - eSewa', 'Insurance Premium Payment']"

"['Outward Remittance', 'School Fee Payment', 'Interest Credit', 'Wallet Load - eSewa', 'Cheque Payment', 'Loan Payment', 'Cable TV Payment']"

"['ATM Withdrawal', 'Wallet Load - Khalti', 'Insurance Premium Payment', 'Loan Payment']"

"['Branch Deposit', 'ATM Withdrawal', 'Interest Credit', 'Inward Remittance', 'Electricity Bill Payment', 'Water Bill Payment', 'QR Payment', 'POS Transaction']"

"['Branch Withdrawal', 'Wallet Load - eSewa', 'Mobile Banking Bill Payment']"

"['Branch Withdrawal', 'Branch Deposit', 'Wallet Load - Khalti', 'Wallet Load - IME Pay']"

"['Inward Remittance', 'Electricity Bill Payment', 'Outward Remittance']"

"['Insurance Premium Payment', 'Mobile Banking Bill Payment', 'Interest Credit', 'Wallet Load - Khalti', 'POS Transaction', 'Hotel Booking Payment', 'Outward Remittance']"

"['School Fee Payment', 'Loan Payment', 'Mobile Banking Transfer', 'Airline Ticket Payment', 'Internet Bill Payment', 'Outward Remittance', 'Electricity Bill Payment', 'QR Payment']"

"['Branch Deposit', 'Mobile Banking Bill Payment', 'QR Payment']"

"['Hotel Booking Payment', 'Wallet Load - IME Pay', 'Interest Credit', 'Wallet Load - Khalti', 'Cheque Payment']"

"['Cable TV Payment', 'Airline Ticket Payment', 'Insurance Premium Payment', 'Loan Payment', 'Inward Remittance', 'QR Payment']"

"['Wallet Load - Khalti', 'Cheque Payment', 'Cable TV Payment', 'Wallet Load - eSewa', 'Wallet Load - IME Pay', 'Branch Deposit', 'Airline Ticket Payment']"

"['Mobile Banking Transfer', 'Interest Credit', 'School Fee Payment', 'Insurance Premium Payment']"

"['Airline Ticket Payment', 'Water Bill Payment', 'Loan Payment', 'Insurance Premium Payment', 'Cable TV Payment', 'Wallet Load - Khalti', 'Internet Bill Payment']"

"['Mobile Banking Bill Payment', 'Inward Remittance', 'Hotel Booking Payment']"

"['Water Bill Payment', 'Electricity Bill Payment', 'QR Payment']"

"['Inward Remittance', 'Outward Remittance', 'Mobile Banking Bill Payment', 'Water Bill Payment', 'Loan Payment', 'Airline Ticket Payment', 'Insurance Premium Payment']"

"['Wallet Load - Khalti', 'POS Transaction', 'School Fee Payment']"

"['Mobile Recharge', 'Branch Withdrawal', 'Cheque Deposit', 'Inward Remittance', 'Interest Credit', 'Water Bill Payment', 'School Fee Payment']"

"['Water Bill Payment', 'Hotel Booking Payment', 'School Fee Payment', 'Internet Bill Payment', 'Mobile Banking Bill Payment', 'Branch Deposit', 'Branch Withdrawal']"

"['Inward Remittance', 'Hotel Booking Payment', 'Branch Deposit', 'ATM Withdrawal', 'Mobile Banking Bill Payment', 'Cable TV Payment', 'Airline Ticket Payment', 'POS Transaction']"

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"['School Fee Payment', 'Outward Remittance', 'Wallet Load - Khalti', 'Insurance Premium Payment']"

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"['Cable TV Payment', 'QR Payment', 'Branch Deposit', 'Electricity Bill Payment', 'Mobile Banking Bill Payment', 'Internet Bill Payment']"

"['QR Payment', 'Electricity Bill Payment', 'Interest Credit']"

"['ATM Withdrawal', 'Electricity Bill Payment', 'Mobile Recharge', 'School Fee Payment']"  
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"['Electricity Bill Payment', 'Airline Ticket Payment', 'Water Bill Payment', 'Branch Deposit', 'Mobile Recharge', 'School Fee Payment', 'Loan Payment', 'Insurance Premium Payment']"  
"['Cable TV Payment', 'POS Transaction', 'ATM Withdrawal', 'Insurance Premium Payment', 'Wallet Load - eSewa']"  
"['Electricity Bill Payment', 'Cable TV Payment', 'Mobile Recharge', 'Hotel Booking Payment', 'Mobile Banking Bill Payment']"  
"['Mobile Banking Transfer', 'Internet Bill Payment', 'Branch Deposit', 'Branch Withdrawal']"  
"['Electricity Bill Payment', 'Mobile Recharge', 'Water Bill Payment', 'Airline Ticket Payment']"  
"['Cheque Payment', 'Inward Remittance', 'Mobile Recharge', 'Internet Bill Payment', 'ATM Withdrawal', 'Interest Credit', 'Insurance Premium Payment']"  
"['Wallet Load - Khalti', 'Loan Payment', 'Branch Deposit', 'ATM Withdrawal']"  
"['Mobile Banking Bill Payment', 'POS Transaction', 'Interest Credit', 'QR Payment', 'Outward Remittance', 'Mobile Banking Transfer', 'Hotel Booking Payment', 'Wallet Load - Khalti']"  
"['Wallet Load - Khalti', 'Mobile Banking Transfer', 'Electricity Bill Payment', 'POS Transaction', 'Insurance Premium Payment', 'Cable TV Payment', 'Mobile Banking Bill Payment', 'ATM Withdrawal']"  
"['Branch Deposit', 'Hotel Booking Payment', 'Mobile Banking Transfer', 'Outward Remittance', 'POS Transaction', 'Internet Bill Payment', 'Interest Credit']"  
"['Inward Remittance', 'Hotel Booking Payment', 'Wallet Load - IME Pay', 'Wallet Load - eSewa', 'Interest Credit', 'POS Transaction', 'Wallet Load - Khalti', 'Water Bill Payment']"  
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"['School Fee Payment', 'Inward Remittance', 'QR Payment', 'Cheque Payment']"  
"['QR Payment', 'Airline Ticket Payment', 'Branch Deposit']"  
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"['Electricity Bill Payment', 'Outward Remittance', 'Branch Withdrawal', 'ATM Withdrawal']"  
"['Internet Bill Payment', 'Branch Deposit', 'Branch Withdrawal', 'Inward Remittance', 'Mobile Banking Bill Payment', 'Wallet Load - IME Pay', 'Mobile Recharge', 'Mobile Banking Transfer']"  
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"['Loan Payment', 'Airline Ticket Payment', 'Mobile Recharge', 'Cable TV Payment']"  
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"['Cheque Deposit', 'Mobile Recharge', 'Airline Ticket Payment', 'Mobile Banking Transfer', 'School Fee Payment', 'Hotel Booking Payment', 'Outward Remittance']"

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"['Cable TV Payment', 'Internet Bill Payment', 'Water Bill Payment']"

"['Electricity Bill Payment', 'Insurance Premium Payment', 'Wallet Load - eSewa', 'Wallet Load - Khalti', 'School Fee Payment', 'Mobile Banking Transfer', 'Airline Ticket Payment']"

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"['Loan Payment', 'Wallet Load - eSewa', 'Mobile Recharge']"

"['Interest Credit', 'Wallet Load - Khalti', 'Cheque Payment', 'Inward Remittance', 'Loan Payment', 'QR Payment']"

"['Wallet Load - IME Pay', 'Insurance Premium Payment', 'Cable TV Payment', 'Electricity Bill Payment', 'Cheque Payment', 'Wallet Load - Khalti', 'Hotel Booking Payment', 'Loan Payment']"

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"['Mobile Recharge', 'Wallet Load - Khalti', 'Water Bill Payment', 'Internet Bill Payment', 'Cheque Payment', 'QR Payment']"

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"['Hotel Booking Payment', 'Outward Remittance', 'Airline Ticket Payment', 'QR Payment', 'Cheque Payment', 'Branch Deposit']"

"['School Fee Payment', 'QR Payment', 'POS Transaction']"

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    "[ 'Branch Deposit', 'Cable TV Payment', 'Interest Credit']"

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  "[ 'Water Bill Payment', 'Insurance Premium Payment', 'Cable TV Payment', 'QR Payment', 'Mobile Recharge', 'Mobile Banking Bill Payment', 'Electricity Bill Payment']"

  "[ 'Electricity Bill Payment', 'Mobile Banking Transfer', 'QR Payment', 'Branch Deposit', 'Insurance Premium Payment']"

  "[ 'Airline Ticket Payment', 'Electricity Bill Payment', 'ATM Withdrawal', 'Mobile Recharge', 'Cheque Deposit', 'Cheque Payment', 'POS Transaction']"

  "[ 'Airline Ticket Payment', 'Wallet Load - Khalti', 'Outward Remittance', 'Hotel Booking Payment', 'Cable TV Payment']"

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  "[ 'Airline Ticket Payment', 'School Fee Payment', 'Branch Deposit', 'ATM Withdrawal']"

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"['Loan Payment', 'Cable TV Payment', 'Hotel Booking Payment', 'School Fee Payment', 'Internet Bill Payment']"

"['POS Transaction', 'Mobile Recharge', 'Hotel Booking Payment', 'Wallet Load - IME Pay', 'Loan Payment']"

"['Branch Deposit', 'Inward Remittance', 'Cheque Payment', 'Insurance Premium Payment']"

"['Wallet Load - IME Pay', 'Mobile Banking Bill Payment', 'ATM Withdrawal', 'Internet Bill Payment']"

```
["[ 'ATM Withdrawal' , 'Mobile Banking Bill Payment' , 'Insurance Premium Payment' ]"]

unique values of dataset[ international_activity ]: [ True False]

unique values of dataset[ risk_score ]: [ 30 33 8 18 27 28 29 21 35 34 22 38 16 11
90 24 47 50 14 26 32 23 39 20
12 36 5 10 42 3 63 17 37 43 1 13 60 40 31 6 48 15 19 4 44 41 25 52
53 7 2 51 45 9 65 57 49 55 46 68 58 61 66 64 62]

unique values of dataset[ transaction_id ]: [ 'TXN20240928983325' 'TXN2024030128603
7' 'TXN20250314747815' ...
'TXN20240501192308' 'TXN20230607767166' 'TXN20230607950188' ]

unique values of dataset[ transaction_date ]: [ '9/28/2024 17:27' '3/1/2024 18:51'
'3/14/2025 4:01' ... '12/26/2024 0:00'
'5/1/2024 1:00' '6/7/2023 3:00' ]

unique values of dataset[ transaction_type ]: [ 'Internet Bill Payment' 'Water Bill
Payment' 'POS Transaction'
'Loan Payment' 'Mobile Banking Bill Payment' 'Cable TV Payment'
'Interest Credit' 'Wallet Load - IME Pay' 'School Fee Payment'
'Branch Deposit' 'Wallet Load - Khalti' 'Inward Remittance'
'Hotel Booking Payment' 'QR Payment' 'Outward Remittance'
'Branch Withdrawal' 'Mobile Banking Transfer' 'ATM Withdrawal'
'Cheque Payment' 'Electricity Bill Payment' 'Mobile Recharge'
'Airline Ticket Payment' 'Insurance Premium Payment' 'Cheque Deposit'
'Wallet Load - eSewa' ]

unique values of dataset[ amount ]: [ 9.7072300e+03 5.0443200e+03 7.8761400e+03 ...
2.5386411e+05 2.3770000e+01
2.9839934e+05]

unique values of dataset[ location ]: [ 'Palpa' 'Lalitpur' 'Jeetpur' 'Chitwan' 'Bard
iya' 'Ilam' 'Birgunj'
'Janakpur' 'Syangja' 'Butwal' 'Kalaiya' 'Biratnagar' 'Hetauda' 'Itahari'
'Pokhara' 'Bardibas' 'Dhangadhi' 'Dolakha' 'Mumbai' 'Nepalgunj'
'Kathmandu' 'Bangkok' 'Dubai' 'Bhaktapur' 'Abu Dhabi' 'Sindhuli'
'Birtamode' 'Delhi' 'Ramechhap' 'Dharan' 'Mustang' 'Silguri' 'London'
'Kailali' 'Kuala Lumpur' 'Sydney' 'Seoul' 'Darchula' 'Tokyo' 'Mirik'
'Jhapa' 'New York' 'Solukhumbu' 'Dhaka' 'Kaski' 'Singapore' 'Hong Kong'
'Doha' 'Nawalparasi' 'Gorkha' 'Tulsipur' 'Bharatpur' ]

unique values of dataset[ ip_address ]: [ '27.86.22.5' '210.62.41.218' '210.51.34.8
0' ... '177.97.103.209'
'27.195.5.104' '190.239.51.107' ]

unique values of dataset[ time_of_day ]: [ 'Evening' 'Late Night' 'Early Morning' 'N
ight' 'Business Hours' ]

unique values of dataset[ transaction_velocity ]: [ 1 4 3 14 2 9 10 11 12 13 8
6 7 5 15]

unique values of dataset[ status ]: [ 'Success' 'Failed']

unique values of dataset[ auth_method ]: [ 'Face Recognition' 'Password' 'PIN' 'OTP'
'Fingerprint'
```

```
'Manual Verification']

unique values of dataset[ amount_deviation ]: [1.49371800e+00 7.76204086e-01 1.2119
5564e+00 ... 7.58999995e+00
7.10757000e-04 8.92150926e+00]

unique values of dataset[ is_suspicious ]: [False True]
```

```
In [166... #normalizing avg_monthly_income , amount, credit_score , avg_transaction_amount
from sklearn.preprocessing import MinMaxScaler
ms_avg_monthly_income = MinMaxScaler(feature_range=(0, 1))
ms_amount = MinMaxScaler(feature_range=(0, 1))
ms_credit_score = MinMaxScaler(feature_range=(0, 1))
ms_avg_transaction_amount = MinMaxScaler(feature_range=(0, 1))
ms_amount_deviation = MinMaxScaler(feature_range=(0, 1))
```

```
In [167... dataset["avg_monthly_income"] = ms_avg_monthly_income.fit_transform(dataset[["avg_m
dataset["amount"] = ms_amount.fit_transform(dataset[["amount"]])
dataset["credit_score"] = ms_credit_score.fit_transform(dataset[["credit_score"]])
dataset["avg_transaction_amount"] = ms_avg_transaction_amount.fit_transform(dataset[["avg_t
dataset["amount_deviation"] = ms_amount_deviation.fit_transform(dataset[["amount_de
```

```
In [ ]:
```

```
In [168... #Label encoding age_group, home_location ,account_type , mobile_banking_user , pri
# preferred_transaction_types , location , time_of_day , status , auth_method , is_
```

```
In [169... from sklearn.preprocessing import LabelEncoder
le_age_group = LabelEncoder()
le_home_location = LabelEncoder()
le_account_type = LabelEncoder()
le_mobile_banking_user = LabelEncoder()
le_primary_device = LabelEncoder()
le_primary_os = LabelEncoder()
le_primary_browser = LabelEncoder()
le_employment_status = LabelEncoder()
le_preferred_transaction_types = LabelEncoder()
le_location = LabelEncoder()
le_time_of_day = LabelEncoder()
le_status = LabelEncoder()
le_auth_method = LabelEncoder()
le_is_suspicious = LabelEncoder()
le_transaction_type = LabelEncoder()
```

```
In [170... dataset["age_group"] = le_age_group.fit_transform(dataset["age_group"])
dataset["home_location"] = le_home_location.fit_transform(dataset["home_location"])
dataset["account_type"] = le_account_type.fit_transform(dataset["account_type"])
dataset["mobile_banking_user"] = le_mobile_banking_user.fit_transform(dataset["mobi
dataset["primary_device"] = le_primary_device.fit_transform(dataset["primary_device"])
dataset["primary_os"] = le_primary_os.fit_transform(dataset["primary_os"])
dataset["primary_browser"] = le_primary_browser.fit_transform(dataset["primary_brow
dataset["employment_status"] = le_employment_status.fit_transform(dataset["employm
dataset["preferred_transaction_types"] = le_preferred_transaction_types.fit_transfo
dataset["location"] = le_location.fit_transform(dataset["location"]))
```

```
dataset["time_of_day"] = le_time_of_day.fit_transform(dataset["time_of_day"])
dataset["status"] = le_status.fit_transform(dataset["status"])
dataset["auth_method"] = le_auth_method.fit_transform(dataset["auth_method"])
dataset["is_suspicious"] = le_is_suspicious.fit_transform(dataset["is_suspicious"])
dataset["transaction_type"] = le_transaction_type.fit_transform(dataset["transactio
```

In [171]:

```
label_maps = {
    "age_group": dict(zip(le_age_group.classes_, le_age_group.transform(le_age_group.classes_))),
    "home_location": dict(zip(le_home_location.classes_, le_home_location.transform(le_home_location.classes_))),
    "account_type": dict(zip(le_account_type.classes_, le_account_type.transform(le_account_type.classes_))),
    "mobile_banking_user": dict(zip(le_mobile_banking_user.classes_, le_mobile_banking_user.transform(le_mobile_banking_user.classes_))),
    "primary_device": dict(zip(le_primary_device.classes_, le_primary_device.transform(le_primary_device.classes_))),
    "primary_os": dict(zip(le_primary_os.classes_, le_primary_os.transform(le_primary_os.classes_))),
    "primary_browser": dict(zip(le_primary_browser.classes_, le_primary_browser.transform(le_primary_browser.classes_))),
    "employment_status": dict(zip(le_employment_status.classes_, le_employment_status.transform(le_employment_status.classes_))),
    "preferred_transaction_types": dict(zip(le_preferred_transaction_types.classes_, le_preferred_transaction_types.transform(le_preferred_transaction_types.classes_))),
    "location": dict(zip(le_location.classes_, le_location.transform(le_location.classes_))),
    "time_of_day": dict(zip(le_time_of_day.classes_, le_time_of_day.transform(le_time_of_day.classes_))),
    "status": dict(zip(le_status.classes_, le_status.transform(le_status.classes_))),
    "auth_method": dict(zip(le_auth_method.classes_, le_auth_method.transform(le_auth_method.classes_))),
    "is_suspicious": dict(zip(le_is_suspicious.classes_, le_is_suspicious.transform(le_is_suspicious.classes_))),
    "transaction_type": dict(zip(le_transaction_type.classes_, le_transaction_type.transform(le_transaction_type.classes_)))
}
label_maps
```

```
Out[171... {'age_group': {'18-25': np.int64(0),
    '26-35': np.int64(1),
    '36-45': np.int64(2),
    '46-55': np.int64(3),
    'nan': np.int64(4)},
  'home_location': {'Bhaktapur': np.int64(0),
    'Bharatpur': np.int64(1),
    'Biratnagar': np.int64(2),
    'Birgunj': np.int64(3),
    'Butwal': np.int64(4),
    'Chitwan': np.int64(5),
    'Darchula': np.int64(6),
    'Dhangadhi': np.int64(7),
    'Dharan': np.int64(8),
    'Gorkha': np.int64(9),
    'Hetauda': np.int64(10),
    'Ilam': np.int64(11),
    'Itahari': np.int64(12),
    'Janakpur': np.int64(13),
    'Jhapa': np.int64(14),
    'Kaski': np.int64(15),
    'Kathmandu': np.int64(16),
    'Lalitpur': np.int64(17),
    'Mustang': np.int64(18),
    'Nawalparasi': np.int64(19),
    'Nepalgunj': np.int64(20),
    'Palpa': np.int64(21),
    'Pokhara': np.int64(22),
    'Solukhumbu': np.int64(23),
    'Tulsipur': np.int64(24)},
  'account_type': {'Current': np.int64(0),
    'Fixed Deposit': np.int64(1),
    'Premium': np.int64(2),
    'Savings': np.int64(3)},
  'mobile_banking_user': {np.False_: np.int64(0), np.True_: np.int64(1)},
  'primary_device': {'Android Phone': np.int64(0),
    'Android Tablet': np.int64(1),
    'Desktop': np.int64(2),
    'Laptop': np.int64(3),
    'iPad': np.int64(4),
    'iPhone': np.int64(5)},
  'primary_os': {'Android': np.int64(0),
    'Linux': np.int64(1),
    'Windows': np.int64(2),
    'iOS': np.int64(3),
    'macOS': np.int64(4)},
  'primary_browser': {'Brave': np.int64(0),
    'Chrome': np.int64(1),
    'Edge': np.int64(2),
    'Firefox': np.int64(3),
    'Opera': np.int64(4),
    'Safari': np.int64(5),
    'Samsung Internet': np.int64(6)},
  'employment_status': {'Employed': np.int64(0),
    'Retired': np.int64(1),
    'Self-employed': np.int64(2)},
```

```
'Student': np.int64(3),
'Unemployed': np.int64(4)},
'preferred_transaction_types': {"['ATM Withdrawal', 'Airline Ticket Payment', 'Cheque Payment', 'Branch Withdrawal']": np.int64(0),
"['ATM Withdrawal', 'Branch Withdrawal', 'Branch Deposit', 'Cable TV Payment']": np.int64(1),
"['ATM Withdrawal', 'Cable TV Payment', 'Cheque Deposit']": np.int64(2),
"['ATM Withdrawal', 'Cable TV Payment', 'POS Transaction', 'Internet Bill Payment', 'QR Payment', 'Hotel Booking Payment', 'Cheque Payment', 'Cheque Deposit']": np.int64(3),
"['ATM Withdrawal', 'Cable TV Payment', 'POS Transaction', 'Loan Payment']": np.int64(4),
"['ATM Withdrawal', 'Cheque Deposit', 'Branch Deposit', 'QR Payment', 'Wallet Load - IME Pay']": np.int64(5),
"['ATM Withdrawal', 'Cheque Deposit', 'Mobile Banking Transfer', 'POS Transaction', 'Wallet Load - Khalti']": np.int64(6),
"['ATM Withdrawal', 'Cheque Payment', 'Electricity Bill Payment', 'School Fee Payment', 'Mobile Recharge', 'Inward Remittance']": np.int64(7),
"['ATM Withdrawal', 'Cheque Payment', 'Mobile Banking Transfer', 'Cheque Deposit']": np.int64(8),
"['ATM Withdrawal', 'Cheque Payment', 'Mobile Recharge', 'Wallet Load - IME Pay', 'Branch Deposit', 'Cheque Deposit', 'Cable TV Payment', 'Water Bill Payment']": np.int64(9),
"['ATM Withdrawal', 'Cheque Payment', 'Water Bill Payment', 'Internet Bill Payment', 'Insurance Premium Payment', 'QR Payment', 'School Fee Payment']": np.int64(10),
"['ATM Withdrawal', 'Electricity Bill Payment', 'Branch Withdrawal', 'Interest Credit', 'Insurance Premium Payment', 'Internet Bill Payment', 'Mobile Banking Transfer']": np.int64(11),
"['ATM Withdrawal', 'Electricity Bill Payment', 'Loan Payment', 'Branch Deposit', 'Internet Bill Payment', 'Inward Remittance', 'Cheque Payment', 'Wallet Load - Khalti']": np.int64(12),
"['ATM Withdrawal', 'Electricity Bill Payment', 'Mobile Recharge', 'School Fee Payment']": np.int64(13),
"['ATM Withdrawal', 'Electricity Bill Payment', 'Mobile Recharge']": np.int64(14),
"['ATM Withdrawal', 'Electricity Bill Payment', 'Wallet Load - eSewa', 'Mobile Banking Transfer', 'Loan Payment', 'Wallet Load - IME Pay', 'School Fee Payment']": np.int64(15),
"['ATM Withdrawal', 'Hotel Booking Payment', 'Airline Ticket Payment', 'QR Payment', 'Branch Deposit', 'Water Bill Payment']": np.int64(16),
"['ATM Withdrawal', 'Hotel Booking Payment', 'Electricity Bill Payment', 'Cable TV Payment', 'QR Payment', 'School Fee Payment', 'POS Transaction']": np.int64(17),
"['ATM Withdrawal', 'Insurance Premium Payment', 'Branch Deposit', 'Internet Bill Payment', 'Wallet Load - Khalti']": np.int64(18),
"['ATM Withdrawal', 'Insurance Premium Payment', 'Branch Withdrawal', 'Outward Remittance', 'Loan Payment', 'Inward Remittance', 'Mobile Recharge', 'Cheque Deposit']": np.int64(19),
"['ATM Withdrawal', 'Insurance Premium Payment', 'Electricity Bill Payment', 'Mobile Recharge', 'Cheque Deposit', 'Wallet Load - Khalti']": np.int64(20),
"['ATM Withdrawal', 'Interest Credit', 'Branch Deposit', 'Wallet Load - IME Pay', 'POS Transaction', 'Mobile Banking Bill Payment', 'Airline Ticket Payment']": np.int64(21),
"['ATM Withdrawal', 'Interest Credit', 'Hotel Booking Payment', 'Airline Ticket Payment']": np.int64(22),
```

```
"['ATM Withdrawal', 'Interest Credit', 'Wallet Load - IME Pay', 'Outward Remittance', 'Mobile Banking Bill Payment', 'Cheque Payment', 'Cable TV Payment', 'School Fee Payment']": np.int64(23),
    "['ATM Withdrawal', 'Inward Remittance', 'Mobile Banking Bill Payment']": np.int64(24),
        "['ATM Withdrawal', 'Loan Payment', 'Electricity Bill Payment', 'Water Bill Payment']": np.int64(25),
            "['ATM Withdrawal', 'Loan Payment', 'Hotel Booking Payment', 'Mobile Recharge', 'Outward Remittance', 'Wallet Load - eSewa']": np.int64(26),
                "['ATM Withdrawal', 'Loan Payment', 'Interest Credit', 'Branch Deposit', 'Water Bill Payment']": np.int64(27),
                    "['ATM Withdrawal', 'Mobile Banking Bill Payment', 'Insurance Premium Payment']": np.int64(28),
                        "['ATM Withdrawal', 'Mobile Banking Bill Payment', 'QR Payment', 'Internet Bill Payment', 'Airline Ticket Payment', 'Wallet Load - Khalti', 'Hotel Booking Payment']": np.int64(29),
                            "['ATM Withdrawal', 'Mobile Recharge', 'Water Bill Payment', 'Mobile Banking Transfer', 'Inward Remittance', 'QR Payment', 'Wallet Load - eSewa', 'Interest Credit']": np.int64(30),
                                "['ATM Withdrawal', 'Outward Remittance', 'Insurance Premium Payment']": np.int64(31),
                                    "['ATM Withdrawal', 'Outward Remittance', 'School Fee Payment', 'POS Transaction']": np.int64(32),
                                        "['ATM Withdrawal', 'POS Transaction', 'Cheque Payment', 'Insurance Premium Payment']": np.int64(33),
                                            "['ATM Withdrawal', 'POS Transaction', 'Inward Remittance', 'School Fee Payment', 'Mobile Banking Bill Payment', 'Water Bill Payment', 'Airline Ticket Payment']": np.int64(34),
                                                "['ATM Withdrawal', 'QR Payment', 'Mobile Banking Bill Payment', 'Wallet Load - eSewa', 'Wallet Load - Khalti', 'Wallet Load - IME Pay', 'Hotel Booking Payment']": np.int64(35),
                                                    "['ATM Withdrawal', 'Wallet Load - IME Pay', 'Branch Deposit']": np.int64(36),
                                                        "['ATM Withdrawal', 'Wallet Load - IME Pay', 'Water Bill Payment', 'Hotel Booking Payment', 'Cheque Deposit', 'Wallet Load - Khalti']": np.int64(37),
                                                            "['ATM Withdrawal', 'Wallet Load - Khalti', 'Cheque Payment', 'POS Transaction', 'Branch Deposit', 'Mobile Recharge']": np.int64(38),
                                                                "['ATM Withdrawal', 'Wallet Load - Khalti', 'Insurance Premium Payment', 'Loan Payment']": np.int64(39),
                                                                    "['ATM Withdrawal', 'Wallet Load - Khalti', 'Outward Remittance', 'Loan Payment']": np.int64(40),
                                                                        "['ATM Withdrawal', 'Wallet Load - eSewa', 'Mobile Banking Transfer', 'Cheque Payment', 'Cheque Deposit', 'Water Bill Payment', 'Wallet Load - IME Pay', 'School Fee Payment']": np.int64(41),
                                                                            "['ATM Withdrawal', 'Water Bill Payment', 'Insurance Premium Payment', 'Branch Deposit', 'Wallet Load - Khalti', 'Airline Ticket Payment']": np.int64(42),
                                                                                "['ATM Withdrawal', 'Water Bill Payment', 'Loan Payment', 'Wallet Load - Khalti', 'Cheque Deposit', 'Internet Bill Payment']": np.int64(43),
                                                                                    "['ATM Withdrawal', 'Water Bill Payment', 'Wallet Load - eSewa', 'Cable TV Payment', 'Branch Deposit', 'Inward Remittance', 'Outward Remittance', 'Internet Bill Payment']": np.int64(44),
                                                                                        "['Airline Ticket Payment', 'ATM Withdrawal', 'Mobile Banking Transfer', 'Cable TV Payment', 'School Fee Payment', 'Interest Credit', 'Hotel Booking Payment']": np.int64(45),
                                                                                            "['Airline Ticket Payment', 'Branch Deposit', 'Mobile Banking Bill Payment', 'Interest Credit']": np.int64(46),
                                                                                                "['Airline Ticket Payment', 'Branch Withdrawal', 'Mobile Banking Bill Payment',
```

```
'Wallet Load - IME Pay', 'Cheque Deposit', 'Mobile Recharge', 'Water Bill Payment']": np.int64(47),
    "[['Airline Ticket Payment', 'Branch Withdrawal', 'Wallet Load - eSewa', 'Mobile Recharge', 'School Fee Payment', 'Inward Remittance', 'Wallet Load - Khalti', 'Wallet Load - IME Pay']": np.int64(48),
        "[['Airline Ticket Payment', 'Cheque Deposit', 'Branch Withdrawal', 'Cheque Payment', 'Mobile Banking Transfer', 'School Fee Payment', 'QR Payment']": np.int64(49),
            "[['Airline Ticket Payment', 'Cheque Deposit', 'Cheque Payment', 'POS Transaction', 'School Fee Payment', 'Loan Payment']": np.int64(50),
                "[['Airline Ticket Payment', 'Cheque Deposit', 'Hotel Booking Payment']": np.int64(51),
                    "[['Airline Ticket Payment', 'Electricity Bill Payment', 'ATM Withdrawal', 'Mobile Recharge', 'Cheque Deposit', 'Cheque Payment', 'POS Transaction']": np.int64(52),
                        "[['Airline Ticket Payment', 'Insurance Premium Payment', 'Branch Deposit']": np.int64(53),
                            "[['Airline Ticket Payment', 'Insurance Premium Payment', 'Mobile Recharge', 'Electricity Bill Payment', 'Water Bill Payment', 'Branch Withdrawal', 'Interest Credit']": np.int64(54),
                                "[['Airline Ticket Payment', 'Interest Credit', 'Hotel Booking Payment', 'Branch Deposit', 'Electricity Bill Payment', 'Wallet Load - IME Pay']": np.int64(55),
                                    "[['Airline Ticket Payment', 'Internet Bill Payment', 'Cable TV Payment', 'Wallet Load - eSewa', 'Branch Withdrawal']": np.int64(56),
                                        "[['Airline Ticket Payment', 'Internet Bill Payment', 'Electricity Bill Payment']": np.int64(57),
                                            "[['Airline Ticket Payment', 'Inward Remittance', 'Wallet Load - Khalti', 'QR Payment', 'Loan Payment']": np.int64(58),
                                                "[['Airline Ticket Payment', 'Inward Remittance', 'Wallet Load - eSewa']": np.int64(59),
                                                    "[['Airline Ticket Payment', 'Loan Payment', 'Branch Withdrawal', 'Cheque Deposit', 'Mobile Banking Transfer']": np.int64(60),
                                                        "[['Airline Ticket Payment', 'Loan Payment', 'Wallet Load - Khalti', 'Inward Remittance', 'Wallet Load - eSewa', 'Water Bill Payment', 'Insurance Premium Payment', 'Wallet Load - IME Pay']": np.int64(61),
                                                            "[['Airline Ticket Payment', 'Mobile Banking Bill Payment', 'Wallet Load - IME Payment', 'Mobile Banking Transfer']": np.int64(62),
                                                                "[['Airline Ticket Payment', 'Mobile Banking Transfer', 'Mobile Banking Bill Payment', 'Branch Deposit', 'Electricity Bill Payment', 'Cable TV Payment']": np.int64(63),
                                                                    "[['Airline Ticket Payment', 'Mobile Recharge', 'Cheque Payment', 'ATM Withdrawal', 'Branch Deposit', 'Mobile Banking Bill Payment', 'QR Payment']": np.int64(64),
                                                                        "[['Airline Ticket Payment', 'POS Transaction', 'Insurance Premium Payment']": np.int64(65),
                                                                            "[['Airline Ticket Payment', 'POS Transaction', 'Mobile Banking Bill Payment', 'Inward Remittance', 'School Fee Payment']": np.int64(66),
                                                                                "[['Airline Ticket Payment', 'POS Transaction', 'School Fee Payment']": np.int64(67),
                                                                                    "[['Airline Ticket Payment', 'QR Payment', 'Branch Deposit', 'Cheque Payment', 'School Fee Payment', 'ATM Withdrawal']": np.int64(68),
                                                                                        "[['Airline Ticket Payment', 'QR Payment', 'Cable TV Payment', 'Water Bill Payment']": np.int64(69),
                                                                                            "[['Airline Ticket Payment', 'QR Payment', 'Cheque Deposit', 'Wallet Load - eSewa', 'Inward Remittance']": np.int64(70),
                                                                                                "[['Airline Ticket Payment', 'QR Payment', 'Insurance Premium Payment']": np.int64(71),
```

"['Airline Ticket Payment', 'QR Payment', 'Mobile Banking Bill Payment', 'Mobile Recharge', 'Cable TV Payment', 'Hotel Booking Payment', 'Cheque Deposit']": np.int64(72),  
"['Airline Ticket Payment', 'QR Payment', 'School Fee Payment', 'Wallet Load - IME Pay', 'Branch Withdrawal', 'Water Bill Payment', 'Cheque Payment', 'Interest Credit']": np.int64(73),  
"['Airline Ticket Payment', 'QR Payment', 'Wallet Load - Khalti', 'Cheque Payment', 'Mobile Banking Transfer', 'Loan Payment', 'POS Transaction', 'Electricity Bill Payment']": np.int64(74),  
"['Airline Ticket Payment', 'School Fee Payment', 'Branch Deposit', 'ATM Withdrawal']": np.int64(75),  
"['Airline Ticket Payment', 'School Fee Payment', 'Internet Bill Payment', 'Inward Remittance', 'Cheque Deposit', 'Wallet Load - Khalti', 'Mobile Recharge', 'QR Payment']": np.int64(76),  
"['Airline Ticket Payment', 'Wallet Load - IME Pay', 'Cheque Deposit', 'Wallet Load - eSewa', 'School Fee Payment', 'Mobile Recharge', 'Mobile Banking Bill Payment']": np.int64(77),  
"['Airline Ticket Payment', 'Wallet Load - IME Pay', 'Outward Remittance', 'Cheque Deposit', 'Branch Withdrawal', 'Insurance Premium Payment']": np.int64(78),  
"['Airline Ticket Payment', 'Wallet Load - Khalti', 'Cheque Deposit', 'Inward Remittance', 'Outward Remittance']": np.int64(79),  
"['Airline Ticket Payment', 'Wallet Load - Khalti', 'Outward Remittance', 'Hotel Booking Payment', 'Cable TV Payment']": np.int64(80),  
"['Airline Ticket Payment', 'Wallet Load - eSewa', 'Branch Withdrawal', 'Water Bill Payment']": np.int64(81),  
"['Airline Ticket Payment', 'Water Bill Payment', 'Cheque Deposit', 'QR Payment', 'Branch Withdrawal', 'Wallet Load - eSewa', 'Cheque Payment']": np.int64(82),  
"['Airline Ticket Payment', 'Water Bill Payment', 'Loan Payment', 'Insurance Premium Payment', 'Cable TV Payment', 'Wallet Load - Khalti', 'Internet Bill Payment']": np.int64(83),  
"['Airline Ticket Payment', 'Water Bill Payment', 'Wallet Load - IME Pay', 'Cheque Payment', 'Interest Credit', 'Inward Remittance']": np.int64(84),  
"['Branch Deposit', 'ATM Withdrawal', 'Cheque Payment', 'Wallet Load - Khalti', 'Cable TV Payment', 'Airline Ticket Payment', 'Water Bill Payment']": np.int64(85),  
"['Branch Deposit', 'ATM Withdrawal', 'Interest Credit', 'Inward Remittance', 'Electricity Bill Payment', 'Water Bill Payment', 'QR Payment', 'POS Transaction']": np.int64(86),  
"['Branch Deposit', 'Airline Ticket Payment', 'Electricity Bill Payment']": np.int64(87),  
"['Branch Deposit', 'Airline Ticket Payment', 'POS Transaction', 'Mobile Recharge']": np.int64(88),  
"['Branch Deposit', 'Branch Withdrawal', 'Outward Remittance', 'Loan Payment', 'Water Bill Payment', 'Insurance Premium Payment', 'Cable TV Payment']": np.int64(89),  
"['Branch Deposit', 'Cable TV Payment', 'Interest Credit']": np.int64(90),  
"['Branch Deposit', 'Cheque Deposit', 'Outward Remittance', 'Inward Remittance', 'Mobile Banking Bill Payment']": np.int64(91),  
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```

In [172...]

```
dataset.head()
```

Out[172...]

	customer_id	age_group	home_location	credit_score	account_age_years	account_type
0	1	1	21	0.745794	13	3
1	1	1	21	0.745794	13	3
2	1	1	21	0.745794	13	3
3	1	1	21	0.745794	13	3
4	1	1	21	0.745794	13	3

5 rows × 29 columns

In [173...]

```
dataset.dtypes
```

Out[173...]

```
customer_id                int64  
age_group                 int64  
home_location              int64  
credit_score               float64  
account_age_years          int64  
account_type               int64  
avg_monthly_income         float64  
mobile_banking_user        int64  
primary_device             int64  
primary_os                 int64  
primary_browser            int64  
avg_transaction_amount    float64  
transaction_frequency      int64  
employment_status          int64  
preferred_transaction_types int64  
international_activity     bool  
risk_score                 int64  
transaction_id             object  
transaction_date           object  
transaction_type           int64  
amount                     float64  
location                   int64  
ip_address                 object  
time_of_day                 int64  
transaction_velocity       int64  
status                     int64  
auth_method                int64  
amount_deviation           float64  
is_suspicious              int64  
dtype: object
```

In [174...]

```
dataset['transaction_id'].nunique()
```

```
Out[174... 103492
```

```
In [175... dataset['transaction_date'].nunique()
```

```
Out[175... 98133
```

```
In [176... dataset.drop(columns=['ip_address', 'transaction_id', 'transaction_date'], inplace=True)
```

```
In [177... #now for algorithm seperate the data  
X = dataset.drop(columns=['is_suspicious'])  
y = dataset['is_suspicious']  
X.ndim
```

```
Out[177... 2
```

```
In [178... from sklearn.model_selection import train_test_split
```

```
In [179... # help(train_test_split)
```

```
In [180... X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.33, random_state=42)
```

```
In [181... from sklearn.ensemble import RandomForestClassifier  
from sklearn.linear_model import LogisticRegression
```

```
In [186... rf = LinearRegression()  
lg = LogisticRegression()
```

```
In [183... rf.fit(X_train, y_train)
```

```
Out[183... ▾ LinearRegression ⓘ ⓘ  
► Parameters
```

```
In [185... rf.score(X_test, y_test)
```

```
Out[185... 0.6133427224337857
```

```
In [ ]:
```

```
In [187... lg.fit(X_train, y_train)
```

```
D:\Installations\Miniconda\envs\dsml\Lib\site-packages\sklearn\linear_model\_logisti
c.py:473: ConvergenceWarning: lbfgs failed to converge after 100 iteration(s) (status=1):
STOP: TOTAL NO. OF ITERATIONS REACHED LIMIT

Increase the number of iterations to improve the convergence (max_iter=100).
You might also want to scale the data as shown in:
    https://scikit-learn.org/stable/modules/preprocessing.html
Please also refer to the documentation for alternative solver options:
    https://scikit-learn.org/stable/modules/linear_model.html#logistic-regression
n_iter_i = _check_optimize_result(
```

Out[187...]

```
▼ LogisticRegression ⓘ ⓘ
▶ Parameters
```

In [188...]

```
lg.score(X_test, y_test)
```

Out[188...]

```
0.9717171717171718
```

In [ ]:

In [190...]

```
y_pred = lg.predict(X_test)
```

In [192...]

```
# finding confusion matrix for this
from sklearn.metrics import confusion_matrix, accuracy_score, classification_report
confusion_logistic = confusion_matrix(y_test, y_pred)
confusion_logistic
```

Out[192...]

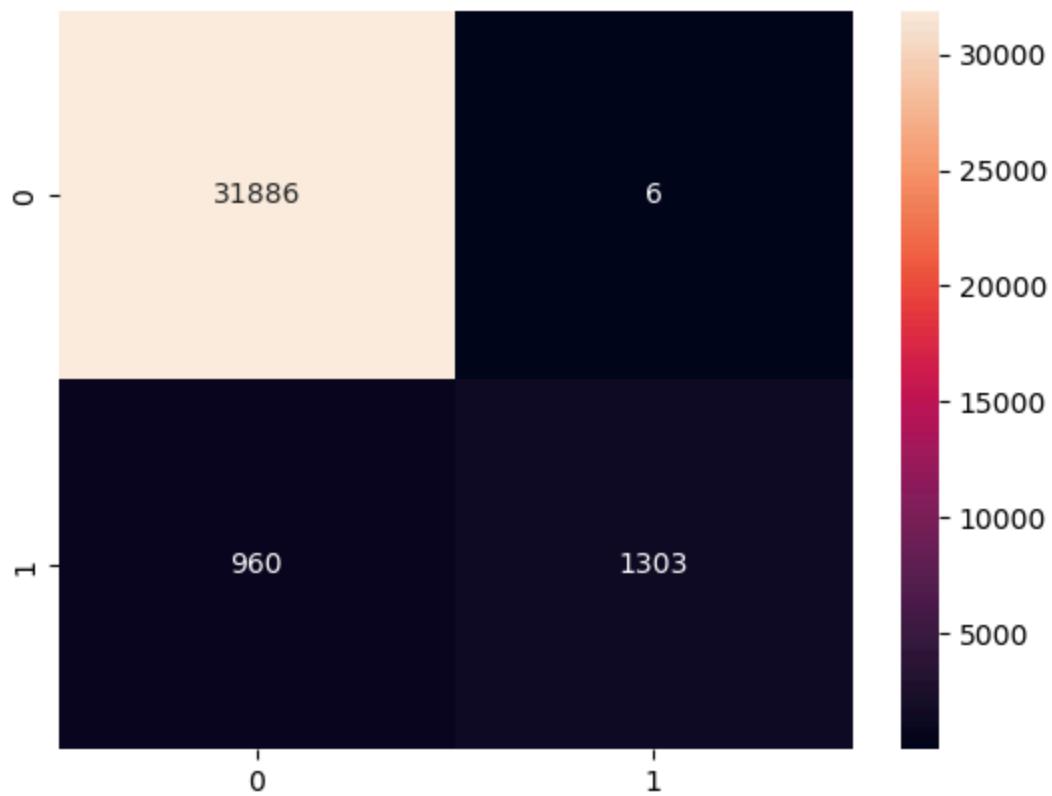
```
array([[31886,      6],
       [ 960, 1303]])
```

In [193...]

```
sns.heatmap(confusion_logistic, annot=True, fmt="d")
plt.plot()
```

Out[193...]

```
[]
```



In [196]:

```
# convert (run in a cell)
!jupyter nbconvert --to webpdf "D:/Github/Data-Science-And-Machine-Learning-Course/
```

Downloading Chromium 141.0.7390.37 (playwright build v1194) from <https://cdn.playwright.dev/dbazure/download/playwright/builds/chromium/1194/chromium-win64.zip>

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| 0% of 148.9 MiB  
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of 148.9 MiB  
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Chromium 141.0.7390.37 (playwright build v1194) downloaded to C:\Users\Sandesh Khatiwada\AppData\Local\ms-playwright\chromium-1194

Downloading FFMPEG playwright build v1011 from <https://cdn.playwright.dev/dbazure/download/playwright/builds/ffmpeg/1011/ffmpeg-win64.zip>

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| 50%  
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â- â- â- â- â- â- | 80% of 1.3 MiB  
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FFMPEG playwright build v1011 downloaded to C:\Users\Sandesh Khatiwada\AppData\Local\ms-playwright\ffmpeg-1011

Downloading Chromium Headless Shell 141.0.7390.37 (playwright build v1194) from https://cdn.playwright.dev/dbazure/download/playwright/builds/chromium/1194/chromium-headless-shell-win64.zip

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0% of 91 MiB

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Chromium Headless Shell 141.0.7390.37 (playwright build v1194) downloaded to C:\Users\Sandesh Khatiwada\AppData\Local\ms-playwright\chromium\_headless\_shell-1194

Downloading Winldd playwright build v1007 from https://cdn.playwright.dev/dbazure/download/playwright/builds/winldd/1007/winldd-win64.zip

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```
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| 87% of 0.1 MiB  
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| 100% of 0.1 MiB
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Winldd playwright build v1007 downloaded to C:\Users\Sandesh Khatiwada\AppData\Local\ms-playwright\winldd-1007

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[NbConvertApp] Converting notebook D:/Github/Data-Science-And-Machine-Learning-Course/Decision Support System/Suspicious_Transaction_Detection_Using_Customer_Transaction_Data_Integration.ipynb to webpdf  
[NbConvertApp] WARNING | Alternative text is missing on 6 image(s).  
[NbConvertApp] Building PDF  
[NbConvertApp] PDF successfully created  
[NbConvertApp] Writing 774961 bytes to D:\Github\Data-Science-And-Machine-Learning-Course\Decision Support System\1_Suspicious_Transaction_Detection.pdf
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In [ ]: