

# FRAUD DETECTION



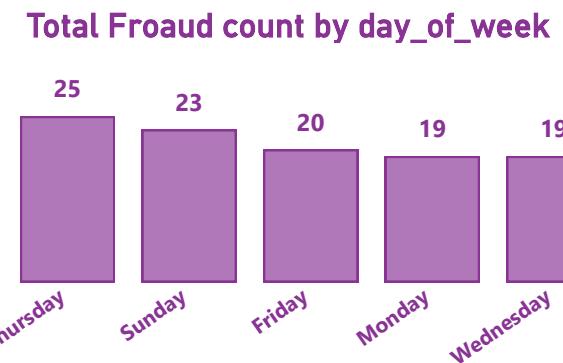
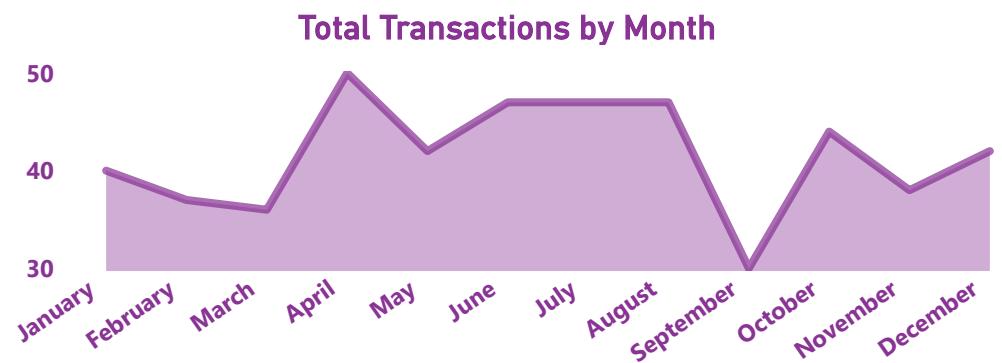
- Quarter
- Qtr 1
  - Qtr 2
  - Qtr 3
  - Qtr 4

**500***Total Transactions***147***Total Fraud count***10.42M***Total Fraud Amount***0.29***Fraud Rate %*

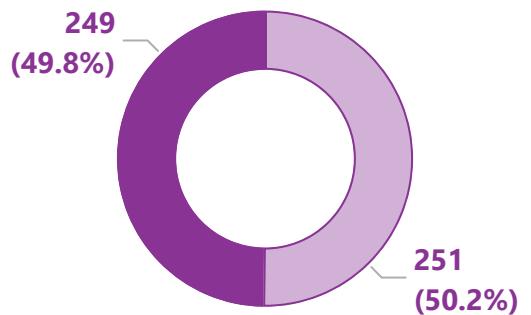
- transaction\_type
- ATM
  - Online
  - Payment
  - Transfer

- location
- Bangalore
  - Chennai
  - Delhi
  - Hyderabad
  - Mumbai
  - Pune

- device\_type
- ATM
  - Mobile
  - Web



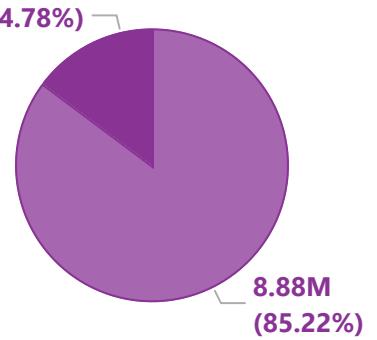
### Total Transactions by high\_amount\_flag



### Fraud Rate % by transaction\_type



### Total Fraud Amount by international\_flag





transaction\_type

All

location

All

is\_fraud

All

high\_amount\_flag

All

is\_international

All

## FRAUD INSIGHTS TABLE

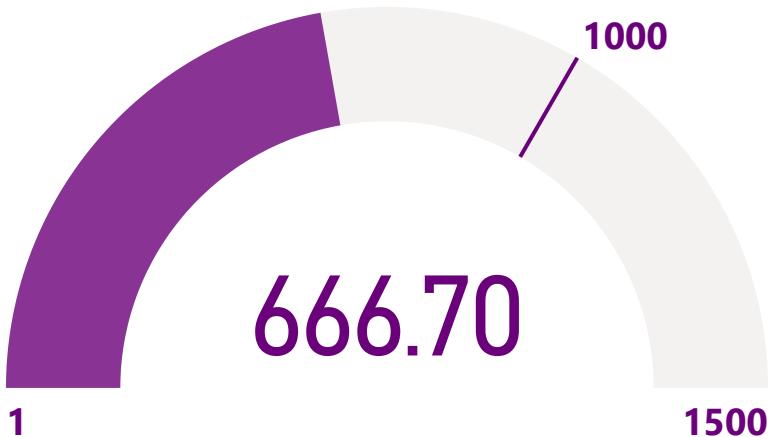
transaction_id	customer_id	amount	transaction_type	location	is_fraud	high_amount_flag	international_flag
1	1051	24848.33	Payment	Pune	0	0	0
2	1092	35661.67	Payment	Hyderabad	0	0	0
3	1014	75808.83	Transfer	Delhi	0	1	0
4	1071	1537.91	Payment	Hyderabad	0	0	0
5	1060	11695.66	Payment	Chennai	0	0	1
6	1020	4695.66	Transfer	Chennai	0	0	0
7	1082	4168.81	Transfer	Chennai	0	0	0
8	1086	85560.51	Online	Mumbai	0	1	0
9	1074	70395.42	Payment	Delhi	1	1	0
10	1074	47469.97	ATM	Pune	0	0	0
11	1087	9873.63	Transfer	Pune	0	0	0
12	1099	49212.43	Online	Mumbai	0	0	0

# CUSTOMER FRAUD PROFILE

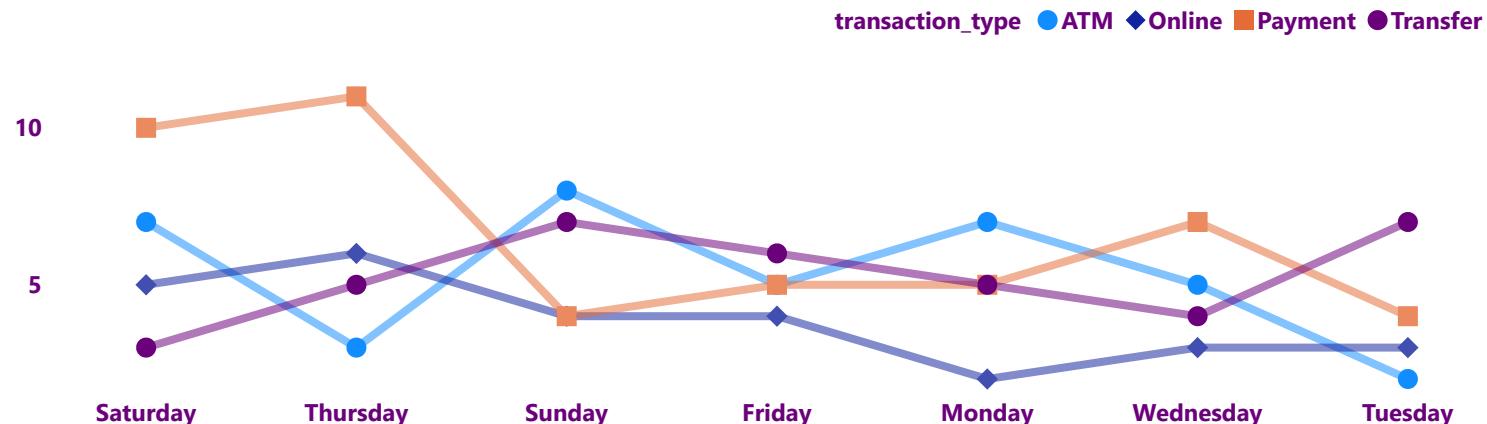
## TOP 5 HIGH RISK ACCOUNTS

customer_id	Risk Score	Total Amount
1056	60.00	178,159.13
1061	56.00	719,607.63
1001	54.00	594,392.07
1055	54.00	155,641.55
1076	54.00	173,974.73

Risk Score, min\_target, max\_target and target



## Total Fraud count by day\_of\_week and transaction\_type



location	ATM	Online	Payment	Transfer
Bangalore	1,094,819.14	286,907.76	1,395,312.53	858,204.24
Chennai	1,001,355.42	1,280,808.17	1,188,485.68	1,009,196.62
Delhi	1,090,610.50	933,550.11	938,919.87	1,281,031.49
Hyderabad	1,192,833.35	1,023,623.97	1,249,792.40	1,213,595.76
Mumbai	652,430.00	1,007,137.38	1,074,532.86	573,448.08
Pune	907,120.95	1,266,581.42	1,105,517.38	1,381,148.01