

```

# =====

# detecting if its going beyond Average Behaviour
# for that we need the last 100 transactions
try:
    print("hiiiiiiiiiiiiiiiiiiiiiiiiiiii")

    import json
    f100rows = tdb.get_transactions_by_vpa((transaction.payer.vpa)) # ✅ Directly use the list
    exact_timestamp = datetime.now().strftime("%Y-%m-%d %H:%M:%S")
    print("her Transactions "+str(f100rows))
    latestQ = {
        "receiver_vpa":transaction.payee.vpa,
        "transaction_amount":transaction.amount,
        "date_time_stamp": exact_timestamp,
        "payer_location_zip":transaction.payer.zipcode,
        "transaction_note": transaction.description
    }
    result = average_module.is_the_user_normal(f100rows,latestQ)
    print("The type result is "+str(type(result)))
    result = json.loads(result)
    print((result))

    is_fraudulent = result["is_fraudulent"] # Correct way to access
    reasons = result["reasons"]

    print("Fraud Or not ?"+str(is_fraudulent))
    if is_fraudulent == True:
        with open("patterndatabase.json", "r") as file:
            patterndb = str(json.load(file))


        fffresult = (zanalyzer.send_to_z_analyze(patterndb,tdb.get_transactions_by_vpa_combined(transaction.payer.vpa),str(latestQ)))
        print(fffresult)
        append_fraud_summary_to_pdf(fffresult)
        return {"error": "❌ WARNING :: Unusal Behavior Check the Values and AMount Again."+str(reasons) }

except:
    print("Error in detecting the behaviour")
# =====

```

Above where the actual processing Happens.

And below as the Message Displayed after the Detetcton



**Payment Gateway**

SBI Life

Powered by Security of Z+ Guard

Developed By Adroit

❌ WARNING :: Unusal Behavior Check the Values and AMount Again.["New location and significantly high amount, potential fraud.", "New UPI ID with an unusually high transaction amount, possible fraud."]

Scan UPI ID
 

Open Scanner

Enter UPI ID or VPA



Enter UPI ID or VPA Of Payer (Sender)

Enter Amount

Note

Proceed to Pay

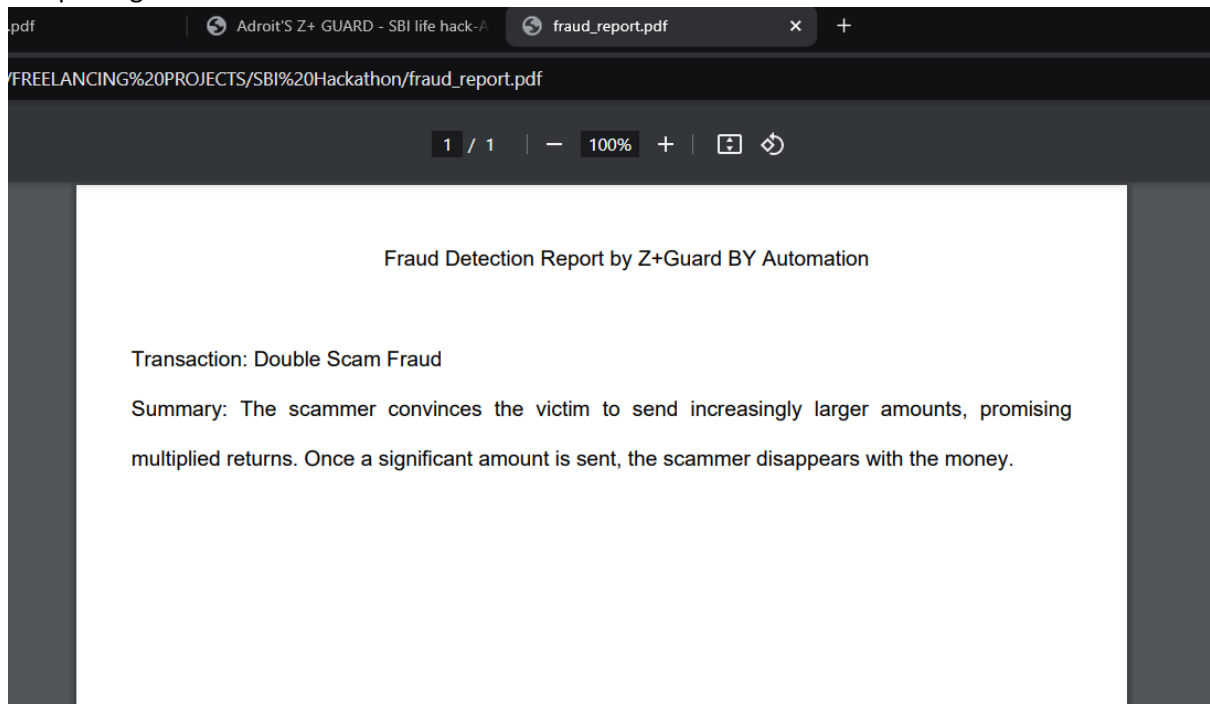
Pune, Maharashtra 411013,  
India

Customize

IP Address: 2401:4900:519e:4a1c:c50b:c316:5d7e:6f34

And for cyber Security Depatment  
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ML models are used .  
Due to Time limitations ill be adding details in the readme File,

Please visit that .  
and  
I am really sorry.  
Thank you

Nawaz Sayyad  
Team Adroit  
project Z+ Guad