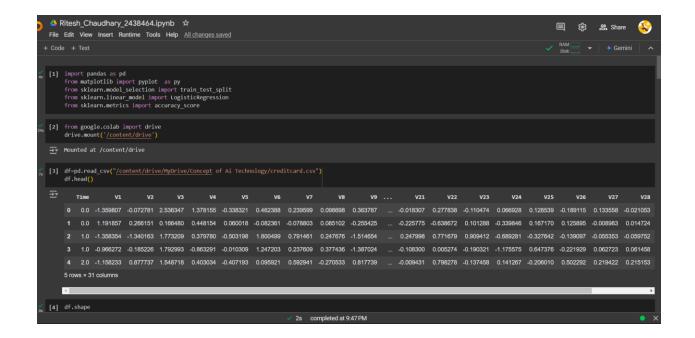
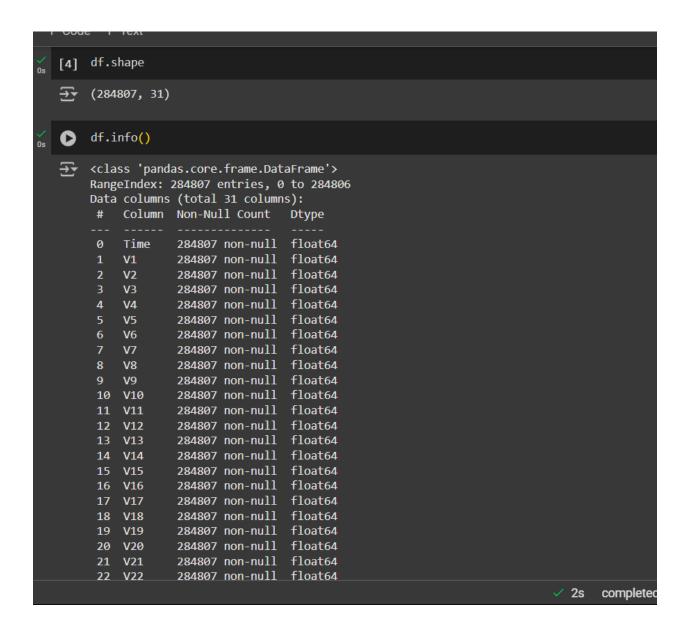
Name: Ritesh Chaudhary

ld: 2438464

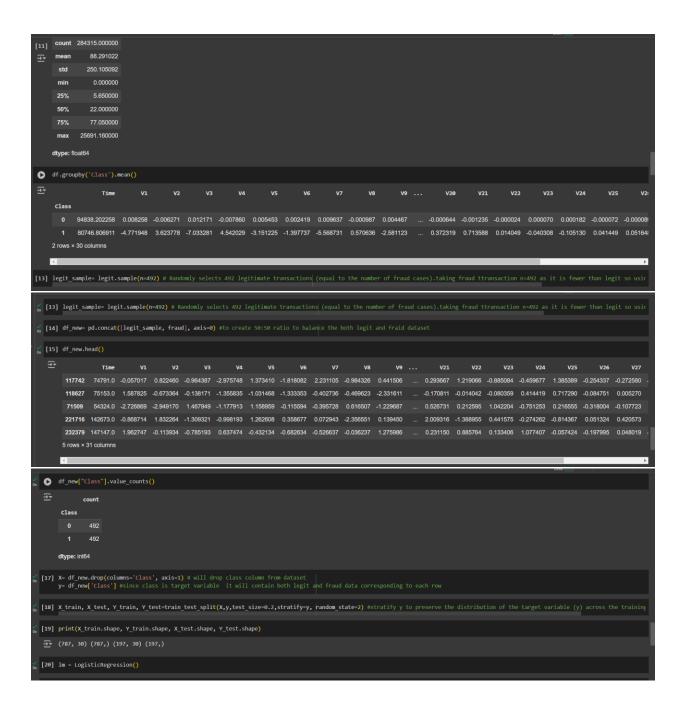
Workshop week-7

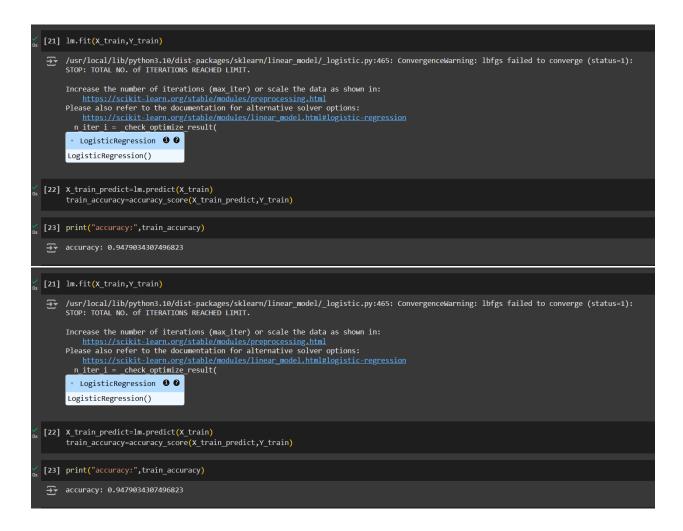






```
[7] df["Class"].value_counts()
₹
             count
     Class
        0
            284315
        1
               492
     dtype: int64
[8] legit=df[df.Class==0]
     fraud=df[df.Class==1]
[9] legit.shape
→ (284315, 31)
[10] fraud.shape
→ (492, 31)
     legit.Amount.describe()
₹
                   Amount
      count 284315.000000
```





```
os [29] model = LinearRegression()
        model.fit(X_train, y_train)
   ₹
         ▼ LinearRegression 🛈 🛭
        LinearRegression()
[30] y_pred = model.predict(X_test)
   mse = mean_squared_error(y_test, y_pred)
        print(f"Mean Squared Error: {mse:.2f}")
        print(f"Coefficient (slope): {model.coef_[0]:.2f}")
        print(f"Intercept: {model.intercept :.2f}")
   → Mean Squared Error: 3.68
        Coefficient (slope): -0.00
       Intercept: 0.16
       plt.scatter(X, y, color='blue', label="Original Data")
        plt.plot(X, model.predict(X), color='red', label="Regression Line")
        plt.xlabel("X (Feature)")
        plt.ylabel("y (Target)")
        plt.legend()
        plt.show()
   ₹
                                                                 Original Data
```

