CREDIT CARD DEFAULT PREDICTIONS

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CODING DOJO

Project Description

The purpose or goal of this project is to predict consumers who default on their credit card payments based on data gathered.

Data consists of 13,444 observations and 14 variables.

:Data Source: https://www.kaggle.com/surekharamireddy/credit-data

Load Data and Inspection

```python
path = '/content/credit_data.csv'
df = pd.read_csv(path)
df.head()
```

	CARDHLDR	DEFAULT	AGE	ACADMOS	ADEPCNT	MAJORDRG	MINORDRG	OWNRENT	INCOME	SELFEMPL	INCPER	EXP_INC	SPENDING	LOGSPEND
0	0	0	27.250000	4	0	0	0	0	1200.000000	0	18000.0	0.000667		
1	0	0	40.833332	111	3	0	0	1	4000.000000	0	13500.0	0.000222		
2	1	0	37.666668	54	3	0	0	1	3666.666667	0	11300.0	0.033270	121.9896773	4.8039364
3	1	0	42.500000	60	3	0	0	1	2000.000000	0	17250.0	0.048427	96.8536213	4.5732008
4	1	0	21.333334	8	0	0	0	0	2916.666667	0	35000.0	0.016523	48.1916700	3.8751862

Source : https://www.kaggle.com/surekharamireddy/credit-data

Description of Data

CARDHLDR   1 if application for credit card accepted, 0 if not

DEFAULT   1 if defaulted 0 if not (observed when CARDHLDR=1, 10,499 observations)

AGE   Age in years plus twelfths of a year

ACADMOS   months living at current address

ADEPCNT   number of dependents

MAJORDRG   Number of major derogatory reports

MINORDRG   Number of minor derogatory reports

OWNRENT   1 if owns their home, 0 if rent

Description of Data....continuation

INCOME   Monthly Income (divided by 10,000)

SELFEMPL   1 if self employed, 0 if not

INCPER   Income divided by number of dependents

EXP_INC   Ratio of monthly credit card expenditure to yearly income

SPENDING   Average monthly credit card expenditure (for CARDHLDR = 1)

LOGSPEND   Log of spending