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# **Prosper Loan Dataset**

by Uju Chinedum

### Introduction

## **Notebook Imports and Settings**

```
In [1]: import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sb
%matplotlib inline
```

```
In [2]: pd.options.display.max_columns = 81
    pd.options.display.max_rows = 81
    sb.set_style("dark")
```

### **Function Definitions**

```
In [4]:

def dtype(col, dtype):
    """

    Returns a series with the data type `dtype`
    """

if dtype == "date":
    if type(col) == list:
        for i in col:
            df[i] = pd.to_datetime(df[i])

    else:
        df[col] = pd.to_datetime(df[col])

else:
    if type(col) == list:
        for i in col:
            df[i] = df[i].astype(dtype)

else:
    df[col] = df[col].astype(dtype)
```

## **Data Wrangling**

## **Data Gathering**

```
In [5]: data = pd.read_csv("Prosper Loan Data.csv")
```

### **Data Assessing**

24 DateCreditPulled

25 CreditScoreRangeLower

```
In [6]: data.info()
       <class 'pandas.core.frame.DataFrame'>
       RangeIndex: 113937 entries, 0 to 113936
       Data columns (total 81 columns):
        # Column
                                              Non-Null Count Dtype
       ---
                                              _____
                                              113937 non-null object
          ListingKey
        0
        1 ListingNumber
                                              113937 non-null int64
          ListingCreationDate
                                              113937 non-null object
          CreditGrade
                                              28953 non-null object
        4
                                              113937 non-null int64
          Term
        5 LoanStatus
                                              113937 non-null object
                                              55089 non-null object
          ClosedDate
                                              113912 non-null float64
          BorrowerAPR
          BorrowerRate
                                              113937 non-null float64
                                             113937 non-null float64
        9 LenderYield
        10 EstimatedEffectiveYield
                                             84853 non-null float64
                                              84853 non-null float64
        11 EstimatedLoss
        12 EstimatedReturn
                                             84853 non-null float64
        13 ProsperRating (numeric)
                                             84853 non-null float64
        14 ProsperRating (Alpha)
                                             84853 non-null object
        15 ProsperScore
                                              84853 non-null float64
        16 ListingCategory (numeric)
                                             113937 non-null int64
        17 BorrowerState
                                             108422 non-null object
        18 Occupation
                                              110349 non-null object
        19 EmploymentStatus
                                              111682 non-null object
                                            106312 non-null float64
        20 EmploymentStatusDuration
                                             113937 non-null bool
        21 IsBorrowerHomeowner
        22 CurrentlyInGroup
                                              113937 non-null bool
        23 GroupKey
                                              13341 non-null object
```

113937 non-null object 113346 non-null float64

```
FirstRecordedCreditLine 113240 non-null object
CurrentCreditLines 106333 non-null float64
CpenCreditLines 106333 non-null float64
TotalCreditLinespast7years 113240 non-null float64
CpenRevolvingAccounts 113937 non-null int64
CpenRevolvingMonthlyPayment 113937 non-null float64
CpenRevolvingMonthls 113240 non-null float64
CpenRevolvingMonthls 113240 non-null float64
CurrentDelinquencies 112778 non-null float64
CurrentDelinquencies 113240 non-null float64
CurrentDelinquent 106315 non-null float64
CurrentDelinquent 106315 non-null float64
PublicRecordsLast10Years 113240 non-null float64
RevolvingCreditBalance 106333 non-null float64
RevolvingCreditBalance 106333 non-null float64
BankcardUtilization 106333 non-null float64
TotalTrades 106393 non-null float64
TotalTrades 106393 non-null float64
TradesNeverDelinquent (percentage) 106393 non-null float64
                                                                                                                               113240 non-null object
                      27 FirstRecordedCreditLine
                      44 TradesNeverDelinquent (percentage) 106393 non-null float64
                     TradesNeverDelinquent (percentage)

TradesOpenedLast6Months

DebtToIncomeRatio

IncomeRange

IncomeVerifiable

StatedMonthlyIncome

LoanKey

TotalProsperLoans

TotalProsperPayments

OnTimeProsperPayments

TotalProsperPayments

TotalProsperPayments

TradesOpenedLast6Months

106393 non-null float64

105383 non-null float64

113937 non-null bool

113937 non-null float64

22085 non-null float64

22085 non-null float64
                               ProsperPaymentsLessThanOneMonthLate 22085 non-null float64
                               ProsperPaymentsOneMonthPlusLate 22085 non-null float64
                      55
                      56 ProsperPrincipalBorrowed 22085 non-null float64
57 ProsperPrincipalOutstanding 22085 non-null float64
58 ScorexChangeAtTimeOfListing 18928 non-null float64
59 LoanCurrentDaysDelinquent 113937 non-null int64
                      59 LoanCurrentDaysDelinquent
                                                                                                                               113937 non-null int64
                                                                                                                          16952 non-null float64
                      60 LoanFirstDefaultedCycleNumber
                                                                                                                          113937 non-null int64
                      61
                               LoanMonthsSinceOrigination
                     62LoanNumber113937 non-null int6463LoanOriginalAmount113937 non-null int6464LoanOriginationDate113937 non-null object65LoanOriginationQuarter113937 non-null object66MemberKey113937 non-null object67MonthlyLoanPayment113937 non-null float6468LP_CustomerPayments113937 non-null float6469LP_CustomerPrincipalPayments113937 non-null float6470LP_InterestandFees113937 non-null float6471LP_ServiceFees113937 non-null float6472LP_CollectionFees113937 non-null float6473LP_GrossPrincipalLoss113937 non-null float6474LP_NetPrincipalLoss113937 non-null float6475LP_NonPrincipalRecoverypayments113937 non-null float6476PercentFunded113937 non-null float64
                                                                                                                           113937 non-null int64
                      62
                               LoanNumber
                      76 PercentFunded
                                                                                                                               113937 non-null float64
                                                                                                                               113937 non-null int64
                      77 Recommendations
                      78 InvestmentFromFriendsCount
                                                                                                                               113937 non-null int64
                      79 InvestmentFromFriendsAmount
                                                                                                                           113937 non-null float64
                                                                                                                               113937 non-null int64
                      80 Investors
                    dtypes: bool(3), float64(50), int64(11), object(17)
                    memory usage: 68.1+ MB
                     data.sample(10)
In [7]:
Out[7]:
                                                                   ListingKey ListingNumber ListingCreationDate CreditGrade Term LoanStatus ClosedDat
                                                                                                                                           2013-11-05
                      4938 4B5A35944694837292AEE4F
                                                                                                        1018308
                                                                                                                                                                                 NaN
                                                                                                                                                                                                   36
                                                                                                                                                                                                                  Current
                                                                                                                                                                                                                                                Nal
                                                                                                                            08:35:05.317000000
```

113346 non-null float64

CreditScoreRangeUpper

52843	66693380122035131DA65D2	85599	2007-01-16 16:09:28.267000000	HR	36	Completed	2010-01-2 00:00:0
49374	F19835453901460088DAC06	581040	2012-04-21 21:47:55.883000000	NaN	60	Current	Naf
86450	D1B135904961755452E804F	904618	2013-09-17 14:59:22.417000000	NaN	36	Current	Naf
57449	AA963408420273796DFCC28	259816	2008-01-04 03:36:19.833000000	С	36	Completed	2010-11-1 00:00:0
64720	CB2A3604389785459F86BAB	1223054	2014-03-04 06:07:25.433000000	NaN	36	Current	Naf
75625	65D23593827405001E3DF6F	993064	2013-11-13 15:03:11.413000000	NaN	60	Current	Naf
78189	860135814904863476FFD70	803089	2013-06-09 14:43:39.137000000	NaN	60	Current	Naf
31176	18C535675611806745DA84E	693577	2013-01-02 19:36:51.577000000	NaN	12	Completed	2014-01-1 00:00:0
32704	54B13600143971062466FF4	1133030	2014-01-13 19:50:36.300000000	NaN	36	Current	Naf

In [8]: data.isna().sum()

Out[8]:

ListingKey	0
ListingNumber	0
ListingCreationDate	0
CreditGrade	84984
Term	0
LoanStatus	0
ClosedDate	58848
BorrowerAPR	25
BorrowerRate	0
LenderYield	0
EstimatedEffectiveYield	29084
EstimatedLoss	29084
EstimatedReturn	29084
ProsperRating (numeric)	29084
ProsperRating (Alpha)	29084
ProsperScore	29084
ListingCategory (numeric)	0
BorrowerState	5515
Occupation	3588
EmploymentStatus	2255
EmploymentStatusDuration	7625
IsBorrowerHomeowner	0
CurrentlyInGroup	0
GroupKey	100596
DateCreditPulled	0
CreditScoreRangeLower	591
CreditScoreRangeUpper	591
FirstRecordedCreditLine	697
CurrentCreditLines	7604
OpenCreditLines	7604
TotalCreditLinespast7years	697
OpenRevolvingAccounts	0
OpenRevolvingMonthlyPayment	0
InquiriesLast6Months	697
TotalInquiries	1159
CurrentDelinquencies	697
AmountDelinquent	7622
DelinquenciesLast7Years	990

PublicRecordsLast10Years	697
PublicRecordsLast12Months	7604
RevolvingCreditBalance	7604
BankcardUtilization	7604
AvailableBankcardCredit	7544
TotalTrades	7544
TradesNeverDelinquent (percentage)	7544
TradesOpenedLast6Months	7544
DebtToIncomeRatio	8554
IncomeRange	0
IncomeVerifiable	0
StatedMonthlyIncome	0
LoanKey	0
TotalProsperLoans	91852
TotalProsperPaymentsBilled	91852
OnTimeProsperPayments	91852
ProsperPaymentsLessThanOneMonthLate	91852
ProsperPaymentsOneMonthPlusLate	91852
ProsperPrincipalBorrowed	91852
ProsperPrincipalOutstanding	91852
ScorexChangeAtTimeOfListing	95009
LoanCurrentDaysDelinquent	0
LoanFirstDefaultedCycleNumber	96985
LoanMonthsSinceOrigination	0
LoanNumber	0
LoanOriginalAmount	0
LoanOriginationDate	0
LoanOriginationQuarter	0
MemberKey	0
MonthlyLoanPayment	0
LP_CustomerPayments	0
LP_CustomerPrincipalPayments	0
LP_InterestandFees	0
LP_ServiceFees	0
LP_CollectionFees	0
LP_GrossPrincipalLoss	0
LP_NetPrincipalLoss	0
LP_NonPrincipalRecoverypayments	0
PercentFunded	0
Recommendations	0
InvestmentFromFriendsCount	0
InvestmentFromFriendsAmount	0
Investors	0
dtype: int64	

## **Data Cleaning**

```
In [9]: df = data.copy()
         extreme na cols = [col for col in df.columns if df[col].isna().sum() >= 58848]
In [10]:
         extreme na cols
Out[10]: ['CreditGrade',
         'ClosedDate',
          'GroupKey',
          'TotalProsperLoans',
          'TotalProsperPaymentsBilled',
          'OnTimeProsperPayments',
          'ProsperPaymentsLessThanOneMonthLate',
          'ProsperPaymentsOneMonthPlusLate',
          'ProsperPrincipalBorrowed',
          'ProsperPrincipalOutstanding',
          'ScorexChangeAtTimeOfListing',
          'LoanFirstDefaultedCycleNumber']
```

```
In [11]:
df.drop(extreme_na_cols, axis = 1, inplace = True)
```

## In [12]: summary(df)

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 113937 entries, 0 to 113936
Data columns (total 69 columns):

Data	columns (total 69 columns):		
#	Column	Non-Null Count	Dtype
0	ListingKey	113937 non-null	object
1	ListingNumber	113937 non-null	int64
2	ListingCreationDate	113937 non-null	object
3	Term	113937 non-null	int64
4	LoanStatus	113937 non-null	object
5	BorrowerAPR	113912 non-null	float64
6	BorrowerRate	113937 non-null	float64
7	LenderYield	113937 non-null	float64
8	EstimatedEffectiveYield	84853 non-null	float64
9	EstimatedLoss	84853 non-null	float64
10	EstimatedReturn	84853 non-null	float64
11	ProsperRating (numeric)	84853 non-null	float64
12	ProsperRating (Alpha)	84853 non-null	object
13	ProsperScore	84853 non-null	float64
14	ListingCategory (numeric)	113937 non-null	int64
15	BorrowerState	108422 non-null	object
16	Occupation	110349 non-null	object
17	EmploymentStatus	111682 non-null	object
18	EmploymentStatusDuration	106312 non-null	float64
19	IsBorrowerHomeowner	113937 non-null	bool
20	CurrentlyInGroup	113937 non-null	bool
21	DateCreditPulled	113937 non-null	object
22	CreditScoreRangeLower	113346 non-null	float64
23	CreditScoreRangeUpper	113346 non-null	float64
24	FirstRecordedCreditLine	113240 non-null	object
25	CurrentCreditLines	106333 non-null	float64
26	OpenCreditLines	106333 non-null	float64
27	TotalCreditLinespast7years	113240 non-null	float64
28	OpenRevolvingAccounts	113937 non-null	int64
29	OpenRevolvingMonthlyPayment	113937 non-null	float64
30	InquiriesLast6Months	113240 non-null	float64
31	TotalInquiries	112778 non-null	float64
32	CurrentDelinquencies	113240 non-null	
33	AmountDelinquent	106315 non-null	
34	DelinquenciesLast7Years	112947 non-null	float64
35	PublicRecordsLast10Years	113240 non-null	float64
36	PublicRecordsLast12Months	106333 non-null	float64
37	RevolvingCreditBalance	106333 non-null	float64
38	BankcardUtilization	106333 non-null	float64
39	AvailableBankcardCredit	106393 non-null	float64
40	TotalTrades	106393 non-null	float64
41	TradesNeverDelinquent (percentage)	106393 non-null	float64
42	TradesOpenedLast6Months	106393 non-null	float64
43	DebtToIncomeRatio	105383 non-null	
44	IncomeRange	113937 non-null	object
45	IncomeVerifiable	113937 non-null	bool
46	StatedMonthlyIncome	113937 non-null	
47	LoanKey	113937 non-null	_
48	LoanCurrentDaysDelinquent	113937 non-null	
49	LoanMonthsSinceOrigination	113937 non-null	
50	LoanNumber	113937 non-null	
51	LoanOriginalAmount	113937 non-null	
52	LoanOriginationDate	113937 non-null	_
53	LoanOriginationQuarter	113937 non-null	_
54	MemberKey	113937 non-null	_
55	MonthlyLoanPayment	113937 non-null	float64

```
56 LP CustomerPayments
                                               113937 non-null float64
 57 LP CustomerPrincipalPayments 113937 non-null float64
 58 LP InterestandFees
                                              113937 non-null float64
 59 LP ServiceFees
                                              113937 non-null float64
 60 LP CollectionFees
                                              113937 non-null float64
61 LP_GrossPrincipalLoss 113937 non-null float64
62 LP_NetPrincipalLoss 113937 non-null float64
63 LP_NonPrincipalRecoverypayments 113937 non-null float64
64 PercentFunded 113937 non-null float64
 64 PercentFunded
                                              113937 non-null float64
 65 Recommendations
                                              113937 non-null int64
 66 InvestmentFromFriendsCount
                                              113937 non-null int64
                                              113937 non-null float64
 67 InvestmentFromFriendsAmount
 68 Investors
                                              113937 non-null int64
dtypes: bool(3), float64(41), int64(11), object(14)
```

memory usage: 57.7+ MB

Out[12]:

In [13]:

	ListingKey	ListingNumber	ListingCreationDate	Term	LoanStatus	BorrowerAPR	Borrow
40742	4DDC35284087468736A7C12	532281	2011-10-13 06:59:34.123000000	36	Current	0.29254	
34166	CABC35025679023563DFF00	488497	2010-12-20 10:03:06.987000000	36	Completed	0.35858	
30843	33963600316843855B29FAA	1163721	2014-01-27 12:33:57.590000000	36	Current	0.23847	
38246	95B3336522781772549AE49	23730	2006-07-09 11:56:57.800000000	36	Completed	0.22744	
27992	012C3595176392133BD8DD4	1033886	2013-11-25 13:43:30.753000000	60	Current	0.16662	
56963	A8383507680272738CD72B7	492731	2011-02-02 12:05:47.010000000	36	Completed	0.30532	
6436	08733497892385640387B03	482624	2010-11-02 15:12:43.773000000	36	Completed	0.07990	
68489	3C953559166100890031F96	642670	2012-09-19 11:26:10.700000000	36	Current	0.35797	
97718	2B3B3583977089847955AAF	832500	2013-07-09 11:59:38.117000000	36	Current	0.21434	
100985	6D2035433087077253BA1B4	571340	2012-03-23 11:11:37.543000000	36	Completed	0.35797	

na cols = [col for col in df.columns if df[col].isna().any() == True]

```
na cols
         ['BorrowerAPR',
Out[13]:
         'EstimatedEffectiveYield',
          'EstimatedLoss',
          'EstimatedReturn',
          'ProsperRating (numeric)',
          'ProsperRating (Alpha)',
          'ProsperScore',
          'BorrowerState',
          'Occupation',
          'EmploymentStatus',
          'EmploymentStatusDuration',
          'CreditScoreRangeLower',
          'CreditScoreRangeUpper',
          'FirstRecordedCreditLine',
          'CurrentCreditLines',
          'OpenCreditLines',
```

```
'InquiriesLast6Months',
          'TotalInquiries',
          'CurrentDelinquencies',
          'AmountDelinquent',
          'DelinquenciesLast7Years',
          'PublicRecordsLast10Years',
          'PublicRecordsLast12Months',
          'RevolvingCreditBalance',
          'BankcardUtilization',
          'AvailableBankcardCredit',
          'TotalTrades',
          'TradesNeverDelinquent (percentage)',
          'TradesOpenedLast6Months',
          'DebtToIncomeRatio']
In [14]: for col in na cols:
             if df[col].dtypes in ["int64", "float64"]:
                 print(f"{col}: {df[col].mean()}")
             else:
                 print(f"{col}: {df[col].mode()[0]}")
        BorrowerAPR: 0.218827655909788
        EstimatedEffectiveYield: 0.16866147490365632
        EstimatedLoss: 0.08030585836682703
        EstimatedReturn: 0.09606829611209916
        ProsperRating (numeric): 4.07224258423391
        ProsperRating (Alpha): C
        ProsperScore: 5.950066585742402
        BorrowerState: CA
        Occupation: Other
        EmploymentStatus: Employed
        EmploymentStatusDuration: 96.07158175934984
        CreditScoreRangeLower: 685.5677306653962
        CreditScoreRangeUpper: 704.5677306653962
        FirstRecordedCreditLine: 1993-12-01 00:00:00
        CurrentCreditLines: 10.317192216903502
        OpenCreditLines: 9.260163824964968
        TotalCreditLinespast7years: 26.75453903214412
        InquiriesLast6Months: 1.4350847756976333
        TotalInquiries: 5.584404759793577
        CurrentDelinquencies: 0.5920522783468739
        AmountDelinquent: 984.5070592108357
        DelinquenciesLast7Years: 4.154984196127387
        PublicRecordsLast10Years: 0.3126457082303073
        PublicRecordsLast12Months: 0.015094091204047661
        RevolvingCreditBalance: 17598.706751431822
        BankcardUtilization: 0.5613086247919373
        AvailableBankcardCredit: 11210.225447162877
        TotalTrades: 23.230033930803717
        TradesNeverDelinguent (percentage): 0.8858971924845054
        TradesOpenedLast6Months: 0.8023272207758029
        DebtToIncomeRatio: 0.2759466040063403
        for col in na cols:
In [15]:
             if df[col].dtypes in ["int64", "float64"]:
                 fill = df[col].mean()
                 df[col].fillna(fill, inplace = True)
             else:
                 fill = df[col].mode()[0]
                 df[col].fillna(fill, inplace = True)
         df.isna().sum()
In [16]:
Out[16]: ListingKey
ListingNumber
                                                0
```

0

'TotalCreditLinespast7years',

Term 0 LoanStatus 0 BorrowerAPR BorrowerRate 0 LenderYield 0 EstimatedEffectiveYield 0 EstimatedCoss 0 EstimatedReturn 0 ProsperRating (numeric) 0 ProsperRating (Alpha) 0 ProsperScore 0 ListingCategory (numeric) 0 BorrowerState 0 Cocupation 0 EmploymentStatus 0 EmploymentStatus 0 EmploymentStatusDuration 0 IsBorrowerHomeowner 0 CurrentlyInGroup 0 DateCreditPulled 0 CreditScoreRangeUpper 0 FirstRecordedCreditLine 0 CurrentCreditLines 0 OpenCreditLines 0 OpenRevolvingAccounts 0 OpenRevolvingAccounts 0 OpenRevolvingMonthlyPayment 0 InquiriesLast6Months 0 TotalInquiries 0 CurrentDelinquencies 0 AmountDelinquent 0 DelinquenciesLast7Years 0 PublicRecordsLast12Months 0 RevolvingCreditBalance 0 BankcardUtilization 0 AvailableBankcardCredit 0 TotalTrades 1 TradesOpenedLast6Months 0 DebtToIncomeRatio 1 IncomeRange 1 IncomeRange 0 IncomeRange 0 IncomeNerifiable 0 StatedMonthlyIncome 0 LoanOriginalAmount 0 Loan	ListingCreationDate	0
LoanStatus BorrowerAPR BorrowerRate LenderYield EstimatedEffectiveYield EstimatedEffectiveYield EstimatedReturn ProsperRating (numeric) ProsperRating (Alpha) ProsperRating (Alpha) ProsperScore ListingCategory (numeric) BorrowerState Occupation EmploymentStatus EmploymentStatus EmploymentStatus EmploymentStatus EmploymentStatus DateCreditPulled CreditScoreRangeLower CurrentlyInGroup DateCreditPulled CreditScoreRangeUpper FirstRecordedCreditLine OpenCreditLines OpenCreditLines OpenRevolvingAccounts OpenRevolvingAccounts OpenRevolvingMonthlyPayment InquiriesLast6Months TotalInquiries CurrentDelinquencies AmountDelinquent DelinquenciesLast7Years PublicRecordsLast10Years PublicRecordsLast10Years PublicRecordsLast12Months RevolvingCreditBalance BankcardUtilization AvailableBankcardCredit TotalTrades TradesOpenedLast6Months DebtToIncomeRatio IncomeVerifiable StatedMonthsyIncome LoanKey LoanCurrentDaysDelinquent DeloanCurrentDaysDelinquent CoanCurrentDaysDelinquent CoanCurrentDaysDelinquent CoanCurrentDaysDelinquent DoanOriginalAmount LoanOriginalAmount LoanOriginationDate LoanOriginationPayments LP_CustomerPayments LP_CustomerPayments LP_CustomerPayments LP_CustomerPayments LP_CustomerPayments LP_CustomerPayments LP_CostomerPayments LP_CostomerPayments LP_CostomerPayments LP_CostomerPayments LP_CostomerPayments LP_CollectionFees LP_ServiceFees LP_GorestPincipalLoss LP_NetPrincipalLoss LP_Ne		
BorrowerAPR BorrowerRate LenderYield EstimatedEffectiveYield EstimatedLoss EstimatedReturn ProsperRating (numeric) ProsperRating (Alpha) ProsperScore ListingCategory (numeric) BorrowerState Occupation EmploymentStatus EmploymentStatusDuration IsBorrowerHomeowner CurrentlyInGroup DateCreditPulled CreditScoreRangeUpper FirstRecordedCreditLine CurrentCreditLines OpenCreditLines OpenCreditLines OpenRevolvingAccounts OpenRevolvingMonthlyPayment InquiriesLast6Months TotalInquiries CurrentDelinquencies AmountDelinquent DelinquenciesLast7Years OpublicRecordsLast10Years OpublicRecordsLast10Years OpublicRecordsLast10Years OpublicRecordelast6Months TotalTrades TradesNeverDelinquent (percentage) TradesNeverDelinquent (percentage) TradesOpenedLast6Months ObebtToIncomeRatio IncomeRange IncomeVerifiable StatedMonthyIncome LoanCurrentDaysDelinquent LoanCurrentDaysDelinquent LoanCurrentDaysDelinquent LoanOriginationDate LoanOriginationQuarter MemberKey MonthlyLoanPayment  LP_CustomerPayments  LP_CostomerPayments		
BorrowerRate LenderYield EstimatedEffectiveYield EstimatedLoss EstimatedReturn ProsperRating (numeric) ProsperRating (Alpha) ProsperScore ListingCategory (numeric) BorrowerState Occupation EmploymentStatus EmploymentStatusDuration IsBorrowerHomeowner CurrentlyInGroup DateCreditPulled CreditScoreRangeLower CreditScoreRangeUpper FirstRecordedCreditLine OpenCreditLines OpenCreditLines OpenRevolvingAccounts OpenRevolvingMonthlyPayment InquiriesLast6Months TotalInquiries CurrentDelinquent DelinquenciesLast7Years PublicRecordsLast10Years PublicRecordsLast10Years PublicRecordeLast6Months TotalTrades TradesNeverDelinquent (percentage) TradesNeverDelinquent (percentage) TradesOpenedLast6Months OnawaitableBankcardCredit TotalTrades TradesOpenedLast6Months CradesOpenedLast6Months DebtToIncomeRatio IncomeRange IncomeVerifiable StatedMonthsSinceOrigination LoanNumber LoanOriginationDate LoanOriginationQuarter MemberKey MonthlyLoanPayment  LP_CustomerPayments  LP_CostomerPayments  LP_Costome		
EstimatedEffectiveYield EstimatedLoss EstimatedReturn ProsperRating (numeric) ProsperRating (Alpha) ProsperScore ListingCategory (numeric) BorrowerState Occupation EmploymentStatus EmploymentStatusDuration IsBorrowerHomeowner CurrentlyInGroup DateCreditPulled CreditScoreRangeLower CreditScoreRangeLower CreditScoreRangeUpper FirstRecordedCreditLine OpenCreditLines OpenCreditLines OpenRevolvingMonthlyPayment InquiriesLast6Months TotalInquiries OurrentDelinquent DelinquenciesLast7Years PublicRecordsLast12Months RevolvingCreditBalance BankcardUtilization AvailableBankcardCredit OtalTrades TradesOpenedLast6Months DebtToIncomeRatio IncomeRange IncomeVerifiable StatedMonthSylopers LoanOriginalAmount LoanOriginalAmount LoanOriginationDate LoanOriginationOparter MemberKey MonthlyLoanPayment UP_CustomerPrincipalPayments UP_CustomerPrincipalPayments UP_CustomerPrincipalPayments UP_ServicePees UP_CollectionFees UP_ServicePees UP_CollectionFees UP_NonPrincipalLoss UP_NonPrincipalLoss UP_NonPrincipalLoss UP_NonPrincipalLoss UP_NonPrincipalLoss UP_NonPrincipalLoss UP_NonPrincipalLoss UP_NonPrincipalLoss UP_NonPrincipalLoss UP_NonPrincipalRecoverypayments UP_CustomerPrincipalLoss UP_NonPrincipalLoss UP_	BorrowerRate	0
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LoanKey LoanCurrentDaysDelinquent LoanMonthsSinceOrigination LoanNumber LoanOriginalAmount LoanOriginationDate LoanOriginationQuarter MemberKey MonthlyLoanPayment LP_CustomerPayments LP_CustomerPrincipalPayments LP_InterestandFees LP_ServiceFees LP_CollectionFees LP_GrossPrincipalLoss LP_NetPrincipalLoss LP_NonPrincipalRecoverypayments DP_ContentFunded Recommendations InvestmentFromFriendsCount		0
LoanCurrentDaysDelinquent LoanMonthsSinceOrigination  LoanNumber  LoanOriginalAmount  LoanOriginationDate  LoanOriginationQuarter  MemberKey  MonthlyLoanPayment  LP_CustomerPayments  LP_CustomerPrincipalPayments  LP_InterestandFees  LP_ServiceFees  LP_ServiceFees  LP_GrossPrincipalLoss  LP_NetPrincipalLoss  LP_NonPrincipalRecoverypayments  O Recommendations  InvestmentFromFriendsCount	<del>-</del>	-
LoanMonthsSinceOrigination 0 LoanNumber 0 LoanOriginalAmount 0 LoanOriginationDate 0 LoanOriginationQuarter 0 MemberKey 0 MonthlyLoanPayment 0 LP_CustomerPayments 0 LP_CustomerPrincipalPayments 0 LP_InterestandFees 0 LP_ServiceFees 0 LP_CollectionFees 0 LP_GrossPrincipalLoss 0 LP_NetPrincipalLoss 0 LP_NonPrincipalRecoverypayments 0 PercentFunded 0 Recommendations 0 InvestmentFromFriendsCount 0	1	-
LoanNumber 0 LoanOriginalAmount 0 LoanOriginationDate 0 LoanOriginationQuarter 0 MemberKey 0 MonthlyLoanPayment 0 LP_CustomerPayments 0 LP_CustomerPrincipalPayments 0 LP_InterestandFees 0 LP_ServiceFees 0 LP_ServiceFees 0 LP_CollectionFees 0 LP_GrossPrincipalLoss 0 LP_NetPrincipalLoss 0 LP_NetPrincipalLoss 0 LP_NonPrincipalRecoverypayments 0 PercentFunded 0 Recommendations 0 InvestmentFromFriendsCount 0		-
LoanOriginalAmount LoanOriginationDate  LoanOriginationQuarter  MemberKey  MonthlyLoanPayment  LP_CustomerPayments  LP_CustomerPrincipalPayments  LP_InterestandFees  LP_ServiceFees  LP_CollectionFees  LP_GrossPrincipalLoss  LP_NetPrincipalLoss  LP_NonPrincipalRecoverypayments  PercentFunded  Recommendations  InvestmentFromFriendsCount  0		-
LoanOriginationDate 0 LoanOriginationQuarter 0 MemberKey 0 MonthlyLoanPayment 0 LP_CustomerPayments 0 LP_CustomerPrincipalPayments 0 LP_InterestandFees 0 LP_ServiceFees 0 LP_ServiceFees 0 LP_CollectionFees 0 LP_GrossPrincipalLoss 0 LP_NetPrincipalLoss 0 LP_NonPrincipalRecoverypayments 0 PercentFunded 0 Recommendations 0 InvestmentFromFriendsCount 0		-
LoanOriginationQuarter 0  MemberKey 0  MonthlyLoanPayment 0  LP_CustomerPayments 0  LP_CustomerPrincipalPayments 0  LP_InterestandFees 0  LP_ServiceFees 0  LP_CollectionFees 0  LP_GrossPrincipalLoss 0  LP_NetPrincipalLoss 0  LP_NonPrincipalRecoverypayments 0  PercentFunded 0  Recommendations 0  InvestmentFromFriendsCount 0	_	-
MemberKey0MonthlyLoanPayment0LP_CustomerPayments0LP_CustomerPrincipalPayments0LP_InterestandFees0LP_ServiceFees0LP_CollectionFees0LP_GrossPrincipalLoss0LP_NetPrincipalLoss0LP_NonPrincipalRecoverypayments0PercentFunded0Recommendations0InvestmentFromFriendsCount0		-
MonthlyLoanPayment 0 LP_CustomerPayments 0 LP_CustomerPrincipalPayments 0 LP_InterestandFees 0 LP_ServiceFees 0 LP_CollectionFees 0 LP_GrossPrincipalLoss 0 LP_NetPrincipalLoss 0 LP_NonPrincipalRecoverypayments 0 PercentFunded 0 Recommendations 0 InvestmentFromFriendsCount 0		-
LP_CustomerPayments 0 LP_CustomerPrincipalPayments 0 LP_InterestandFees 0 LP_ServiceFees 0 LP_CollectionFees 0 LP_GrossPrincipalLoss 0 LP_NetPrincipalLoss 0 LP_NonPrincipalRecoverypayments 0 PercentFunded 0 Recommendations 0 InvestmentFromFriendsCount 0	_	-
LP_CustomerPrincipalPayments 0 LP_InterestandFees 0 LP_ServiceFees 0 LP_CollectionFees 0 LP_GrossPrincipalLoss 0 LP_NetPrincipalLoss 0 LP_NonPrincipalRecoverypayments 0 PercentFunded 0 Recommendations 0 InvestmentFromFriendsCount 0		-
LP_InterestandFees 0 LP_ServiceFees 0 LP_CollectionFees 0 LP_GrossPrincipalLoss 0 LP_NetPrincipalLoss 0 LP_NonPrincipalRecoverypayments 0 PercentFunded 0 Recommendations 0 InvestmentFromFriendsCount 0	<del>_</del>	-
LP_ServiceFees 0 LP_CollectionFees 0 LP_GrossPrincipalLoss 0 LP_NetPrincipalLoss 0 LP_NonPrincipalRecoverypayments 0 PercentFunded 0 Recommendations 0 InvestmentFromFriendsCount 0		0
LP_CollectionFees 0 LP_GrossPrincipalLoss 0 LP_NetPrincipalLoss 0 LP_NonPrincipalRecoverypayments 0 PercentFunded 0 Recommendations 0 InvestmentFromFriendsCount 0		0
LP_NetPrincipalLoss 0 LP_NonPrincipalRecoverypayments 0 PercentFunded 0 Recommendations 0 InvestmentFromFriendsCount 0		0
LP_NetPrincipalLoss 0 LP_NonPrincipalRecoverypayments 0 PercentFunded 0 Recommendations 0 InvestmentFromFriendsCount 0	<del>_</del>	0
PercentFunded 0 Recommendations 0 InvestmentFromFriendsCount 0	<del>_</del>	0
Recommendations 0 InvestmentFromFriendsCount 0	LP_NonPrincipalRecoverypayments	0
InvestmentFromFriendsCount 0	PercentFunded	0
		0
InvestmentFromFriendsAmount 0		0
	InvestmentFromFriendsAmount	0

### In [17]: summary(df)

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 113937 entries, 0 to 113936
Data columns (total 69 columns):

Data	columns (total 69 columns):		
#	Column	Non-Null Count	Dtype
0	ListingKey	113937 non-null	object
1	ListingNumber	113937 non-null	int64
2	ListingCreationDate	113937 non-null	object
3	Term	113937 non-null	int64
4	LoanStatus	113937 non-null	object
5	BorrowerAPR	113937 non-null	float64
6	BorrowerRate	113937 non-null	float64
7	LenderYield	113937 non-null	float64
8	EstimatedEffectiveYield	113937 non-null	float64
9	EstimatedLoss	113937 non-null	float64
10	EstimatedReturn	113937 non-null	float64
11	ProsperRating (numeric)	113937 non-null	float64
12	ProsperRating (Alpha)	113937 non-null	object
13	ProsperScore	113937 non-null	float64
14	ListingCategory (numeric)	113937 non-null	int64
15	BorrowerState	113937 non-null	object
16	Occupation	113937 non-null	object
17	EmploymentStatus	113937 non-null	object
18	EmploymentStatusDuration	113937 non-null	float64
19	IsBorrowerHomeowner	113937 non-null	bool
20	CurrentlyInGroup	113937 non-null	bool
21	DateCreditPulled	113937 non-null	object
22	CreditScoreRangeLower	113937 non-null	float64
23			
23	CreditScoreRangeUpper FirstRecordedCreditLine	113937 non-null	float64
25	CurrentCreditLines	113937 non-null	object float64
		113937 non-null	float64
26 27	OpenCreditLines	113937 non-null	float64
	TotalCreditLinespast7years	113937 non-null	
28	OpenRevolvingAccounts	113937 non-null	int64
29	OpenRevolvingMonthlyPayment	113937 non-null	float64
30	InquiriesLast6Months	113937 non-null	float64
31	TotalInquiries	113937 non-null	float64
32	CurrentDelinquencies	113937 non-null	float64
33	AmountDelinquent	113937 non-null	float64
	DelinquenciesLast7Years	113937 non-null	
35	PublicRecordsLast10Years	113937 non-null	float64
36	PublicRecordsLast12Months	113937 non-null	float64
37	RevolvingCreditBalance	113937 non-null	float64
38	BankcardUtilization	113937 non-null	float64
39	AvailableBankcardCredit	113937 non-null	float64
40	TotalTrades	113937 non-null	float64
41	TradesNeverDelinquent (percentage)	113937 non-null	float64
42	TradesOpenedLast6Months	113937 non-null	float64
43	DebtToIncomeRatio	113937 non-null	float64
44	IncomeRange	113937 non-null	object
45	IncomeVerifiable	113937 non-null	bool
46	StatedMonthlyIncome	113937 non-null	float64
47	LoanKey	113937 non-null	object
48	LoanCurrentDaysDelinquent	113937 non-null	int64
49	LoanMonthsSinceOrigination	113937 non-null	int64
50	LoanNumber	113937 non-null	int64
51	LoanOriginalAmount	113937 non-null	int64
52	LoanOriginationDate	113937 non-null	object
53	LoanOriginationQuarter	113937 non-null	object
54	MemberKey	113937 non-null	object
55	MonthlyLoanPayment	113937 non-null	float64

```
56 LP CustomerPayments
                                              113937 non-null float64
 57 LP CustomerPrincipalPayments 113937 non-null float64
 58 LP InterestandFees
                                            113937 non-null float64
 59 LP ServiceFees
                                             113937 non-null float64
                                             113937 non-null float64
 60 LP CollectionFees
 61 LP_GrossPrincipalLoss 113937 non-null float64
62 LP_NetPrincipalLoss 113937 non-null float64
63 LP_NonPrincipalRecoverypayments 113937 non-null float64
64 PercentFunded 113937
 64 PercentFunded
                                             113937 non-null float64
 65 Recommendations
                                             113937 non-null int64
 66 InvestmentFromFriendsCount
                                            113937 non-null int64
 67 InvestmentFromFriendsAmount
                                             113937 non-null float64
 68 Investors
                                             113937 non-null int64
dtypes: bool(3), float64(41), int64(11), object(14)
memory usage: 57.7+ MB
```

Out[17]:

	ListingKey	ListingNumber	ListingCreationDate	Term	LoanStatus	BorrowerAPR	Borrow
93789	651D3474085549777F649DC	444720	2010-01-29 02:32:31.687000000	36	Completed	0.23129	
113330	F2EA342008468883025A1AA	331074	2008-05-12 12:50:13.067000000	36	Completed	0.12453	
19998	8AA83583864774354BCDC8E	843139	2013-07-17 12:55:49.563000000	60	Current	0.18136	
15053	98823365845254224EFD03C	18585	2006-06-08 20:57:28.357000000	36	Chargedoff	0.23748	
86955	64CF352873761509834508B	535671	2011-10-26 12:25:48.233000000	36	Current	0.35132	
103813	930A3602469426701913500	1156993	2014-02-11 18:06:05.190000000	60	Current	0.20833	
12689	55A03510276261562A73695	499531	2011-03-26 03:15:48.617000000	36	Completed	0.35643	
1046	2E3A3594728148214D8C338	1049019	2013-11-25 12:06:16.250000000	36	Current	0.15223	
63825	C99235311946381591F884F	537841	2011-11-07 12:49:11.427000000	36	Defaulted	0.20200	
63245	D0E3353822900397854A653	554759	2012-01-27 11:47:14.570000000	36	Current	0.33973	

```
In [18]: date = ["ListingCreationDate", "DateCreditPulled", "FirstRecordedCreditLine", "LoanOrigi
dtype(date, "date")

In [19]: string = ["ProsperRating (numeric)", "ProsperScore", "ListingCategory (numeric)", "LoanN
dtype(string, int)
dtype(string, object)
```

In [21]: summary(df)

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 113937 entries, 0 to 113936
Data columns (total 69 columns):

#	Column	Non-Null Count	Dtype
0	ListingKey	113937 non-null	object
1	ListingNumber	113937 non-null	int64
2	ListingCreationDate	113937 non-null	datetime64[ns]
3	Term	113937 non-null	int64
4	LoanStatus	113937 non-null	object
5	BorrowerAPR	113937 non-null	float64
6	BorrowerRate	113937 non-null	float64
7	LenderYield	113937 non-null	float64
8	EstimatedEffectiveYield	113937 non-null	float64
9	EstimatedLoss	113937 non-null	
10	EstimatedReturn	113937 non-null	
11	ProsperRating (numeric)	113937 non-null	=
12	<u> </u>	113937 non-null	-
13	ProsperScore	113937 non-null	-
14	ListingCategory (numeric)	113937 non-null	-
15	BorrowerState	113937 non-null	-
16	Occupation	113937 non-null	-
17	EmploymentStatus	113937 non-null	2
18	EmploymentStatusDuration IsBorrowerHomeowner	113937 non-null	
19		113937 non-null	
20 21	CurrentlyInGroup DateCreditPulled	113937 non-null 113937 non-null	
22	CreditScoreRangeLower	113937 non-null	
23	CreditScoreRangeUpper	113937 non-null	
24	FirstRecordedCreditLine	113937 non-null	
25	CurrentCreditLines	113937 non-null	
26	OpenCreditLines	113937 non-null	
27	TotalCreditLinespast7years	113937 non-null	
28	OpenRevolvingAccounts	113937 non-null	
29	OpenRevolvingMonthlyPayment	113937 non-null	
30	InquiriesLast6Months	113937 non-null	
31	TotalInquiries	113937 non-null	
32	CurrentDelinquencies	113937 non-null	
33	AmountDelinquent	113937 non-null	
34	DelinquenciesLast7Years	113937 non-null	int64
35	PublicRecordsLast10Years	113937 non-null	int64
36	PublicRecordsLast12Months	113937 non-null	int64
37	RevolvingCreditBalance	113937 non-null	float64
38	BankcardUtilization	113937 non-null	float64
39	AvailableBankcardCredit	113937 non-null	float64
40	TotalTrades	113937 non-null	int64
41	TradesNeverDelinquent (percentage)	113937 non-null	float64
42	TradesOpenedLast6Months	113937 non-null	int64
43	DebtToIncomeRatio	113937 non-null	
44	IncomeRange	113937 non-null	_
45	IncomeVerifiable	113937 non-null	bool
46	StatedMonthlyIncome	113937 non-null	float64
47	LoanKey	113937 non-null	-
48	LoanCurrentDaysDelinquent	113937 non-null	
49	LoanMonthsSinceOrigination	113937 non-null	
50	LoanNumber	113937 non-null	-
51	LoanOriginalAmount	113937 non-null	int64
52 53	LoanOriginationDate	113937 non-null	datetime64[ns]
53	LoanOriginationQuarter	113937 non-null	-
54 55	MemberKey MenthlyLeanPayment	113937 non-null	object
55 56	MonthlyLoanPayment	113937 non-null	float64
56 57	LP_CustomerPayments LP CustomerPrincipalPayments	113937 non-null	float64
58	LP_CustomerFrincipalFayments LP InterestandFees	113937 non-null 113937 non-null	float64 float64
59	LP ServiceFees	113937 non-null	float64
60	LP CollectionFees	113937 non-null	float64
61	LP GrossPrincipalLoss	113937 non-null	float64
62	LP NetPrincipalLoss	113937 non-null	float64
63	LP NonPrincipalRecoverypayments	113937 non-null	float64
0.0			

```
64 PercentFunded
                                      113937 non-null float64
                                      113937 non-null int64
65 Recommendations
66 InvestmentFromFriendsCount
                                     113937 non-null int64
67 InvestmentFromFriendsAmount
                                      113937 non-null float64
68 Investors
                                      113937 non-null int64
```

dtypes: bool(3), datetime64[ns](4), float64(24), int64(24), object(14)

memory usage: 57.7+ MB

#### Out[21]:

	ListingKey	ListingNumber	ListingCreationDate	Term	LoanStatus	BorrowerAPR	Borrowe
13511	482835898149447646283FC	948438	2013-10-02 10:37:45.763	60	Current	0.21935	
91676	E85835935344783262431FB	962341	2013-10-25 19:26:12.750	60	Current	0.18965	
59252	73E435045158005448FEAA8	489211	2010-12-28 07:45:04.970	36	Completed	0.30532	
88015	221435529874669307B14E1	615762	2012-07-24 11:10:07.323	36	Completed	0.35797	
75641	94253552957062952CEF968	616566	2012-07-26 07:38:06.893	36	Current	0.23939	
6953	A33835968624159508C364B	1083420	2013-12-12 13:53:10.487	60	Current	0.16662	
99219	78873415204688165F74BEA	291397	2008-03-10 18:47:19.037	36	Completed	0.18292	
62594	30C63593899676835F736CF	995246	2013-11-04 09:09:21.770	36	Current	0.33215	
55098	5B5335254847543381E8249	526989	2011-09-13 10:29:58.620	36	Current	0.30532	
108750	EF163431739116501834B4C	393542	2008-09-05 12:08:46.880	36	Completed	0.15629	

In [22]: df.describe(include = "all", datetime\_is\_numeric=True)

#### Out[22]:

	ListingKey	ListingNumber	ListingCreationDate	Term	LoanStatus	BorrowerAPR
count	113937	1.139370e+05	113937	113937.000000	113937	113937.000000
unique	113066	NaN	NaN	NaN	12	NaN
top	17A93590655669644DB4C06	NaN	NaN	NaN	Current	NaN
freq	6	NaN	NaN	NaN	56576	NaN
mean	NaN	6.278857e+05	2011-07-09 08:07:23.491206656	40.830248	NaN	0.218828
min	NaN	4.000000e+00	2005-11-09 20:44:28.847000	12.000000	NaN	0.006530
25%	NaN	4.009190e+05	2008-09-19 10:02:14.769999872	36.000000	NaN	0.156290
50%	NaN	6.005540e+05	2012-06-16 12:37:19.990000128	36.000000	NaN	0.209790
75%	NaN	8.926340e+05	2013-09-09 19:40:48.963000064	36.000000	NaN	0.283700

In [23]:	<pre>df.duplicated().sum()</pre>
Out[23]:	0
In [24]:	<pre>df.to_csv("modified.csv", index = False)</pre>

1.255725e+06

3.280762e+05

NaN

NaN

2014-03-10

NaN

12:20:53.760000

60.000000

10.436212

NaN

NaN

0.512290

0.080355

## **Project Info**

max

std

#### **Dataset Structure**

The dataset comprises of 113937 rows and 81 columns initially with 3 boolean columns, 61 numeric columns and 14 object columns but there are a lot of columns with too many missing values and incorrect data types. After investigatig those columns, I found that they were unique and needed but with no way to get them, I decided to drop those columns with extreme missing values (i.e >=58848 missing values) and fill the remaining. After that the new dataframe comprised of 113937 rows ands 69 columns with 3 boolean columns, 4 datetime columns, 48 numeric columns and 14 object columns.

#### **Features of Interest**

- BorrowerAPR
- ProsperRating (numeric)
- ProsperRating (Alpha)
- ProsperScore

### **Support Features**

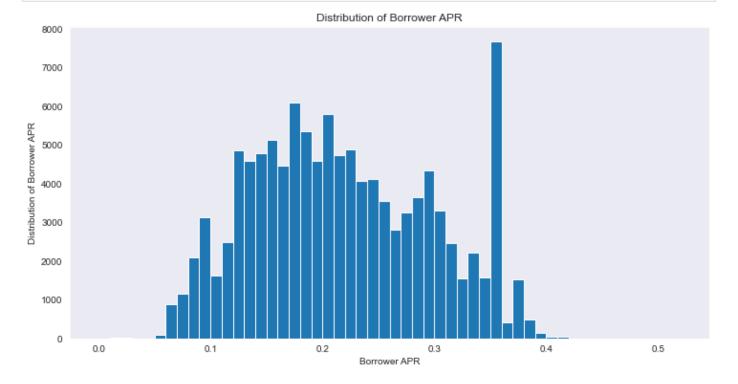
- EmploymentStatus
- IsBorrowerHomeowner
- IncomeVerifiable
- LoanOriginalAmount
- TotalTrades

## **Univariate Exploration**

```
In [26]: plt.figure(figsize = (12, 6))
   plt.hist(data = df, x = "BorrowerAPR", bins = e)

plt.title("Distribution of Borrower APR")
   plt.xlabel("Borrower APR")
   plt.ylabel("Distribution of Borrower APR")

plt.show()
```



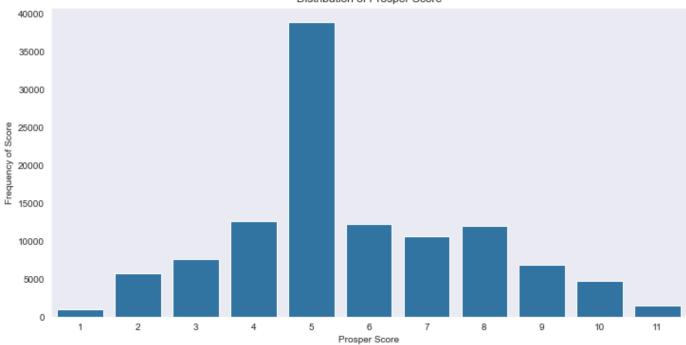
The distribution of BorrowerAPR looks normal but with a spike in value at around 0.35 - 0.37

```
In [27]: plt.figure(figsize = (12, 6))
    sb.countplot(data = df, x = "ProsperScore", color = sb.color_palette()[0])

plt.title("Distribution of Prosper Score")
    plt.xlabel("Prosper Score")
    plt.ylabel("Frequency of Score")

plt.show()
```



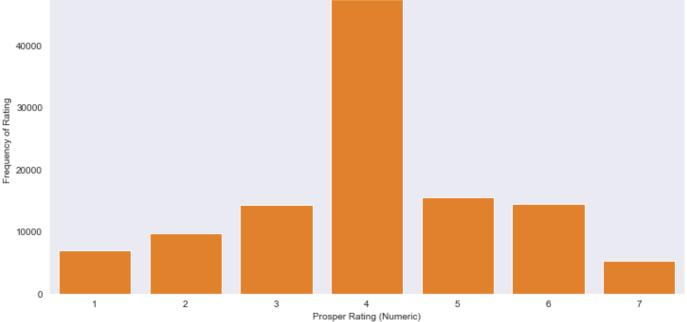


```
In [28]: plt.figure(figsize = (12, 6))
    sb.countplot(data = df, x = "ProsperRating (numeric)", color = sb.color_palette()[1])

plt.title("Distribution of Numeric Prosper Rating")
    plt.xlabel("Prosper Rating (Numeric)")
    plt.ylabel("Frequency of Rating")

plt.show()
```





```
In [29]: order = ["HR", "E", "D", "C", "B", "A", "AA"]

# For reproducability
pd_ver = pd.__version__.split(".")

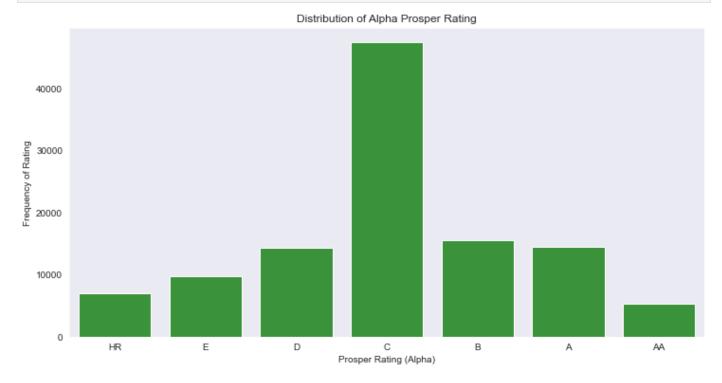
if (int(pd_ver[0]) > 0) or (int(pd_ver[1]) >= 21):
    rating = pd.api.types.CategoricalDtype(ordered = True, categories = order)
    df["ProsperRating (Alpha)"] = df["ProsperRating (Alpha)"].astype(rating)
```

```
else:
    df["ProsperRating (Alpha)"] = df["ProsperRating (Alpha)"].astype("category", ordered
```

```
In [30]: plt.figure(figsize = (12, 6))
    sb.countplot(data = df, x = "ProsperRating (Alpha)", color = sb.color_palette()[2])

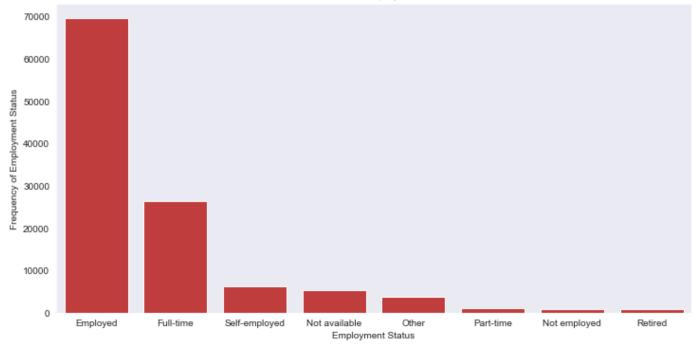
plt.title("Distribution of Alpha Prosper Rating")
    plt.xlabel("Prosper Rating (Alpha)")
    plt.ylabel("Frequency of Rating")

plt.show()
```



From the visualizations above, I observed that the ProsperRating (numeric) and ProsperRating (Alpha) are infact the same and the only difference was how they were represented. The frequency of these two increased as the ratings until they got to the modal rating and then began to fall. ProsperScore observed a similar pattern.

```
arr = df["EmploymentStatus"].value counts().index
In [31]:
         df["EmploymentStatus"].value counts()
         Employed
                          69577
Out[31]:
         Full-time
                          26355
         Self-employed
                          6134
         Not available
                          5347
         Other
                           3806
         Part-time
                           1088
        Not employed
                           835
                            795
        Retired
        Name: EmploymentStatus, dtype: int64
In [32]: plt.figure(figsize = (12, 6))
         sb.countplot(data = df, x = "EmploymentStatus", color = sb.color palette()[3], order = a
         plt.title("Distribution of Employment Status")
         plt.xlabel("Employment Status")
         plt.ylabel("Frequency of Employment Status")
         plt.show()
```



The distribution of EmploymentStatus showed that Employed people tend to apply for loan more than others. It may be argued that this is because the missing values of those features were filled with their mode but that just implies that they were alreading leading results in said features

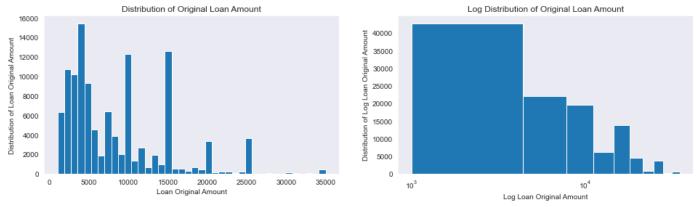
```
In [33]: plt.figure(figsize = (16, 4))

plt.subplot(1, 2, 1)
plt.hist(data = df, x = "LoanOriginalAmount", bins = 40)

plt.title("Distribution of Original Loan Amount")
plt.xlabel("Loan Original Amount")
plt.ylabel("Distribution of Loan Original Amount")

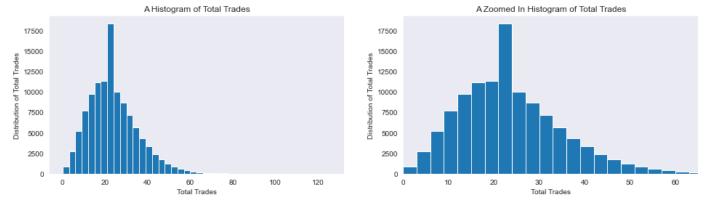
plt.subplot(1, 2, 2)
plt.hist(data = df, x = "LoanOriginalAmount")

plt.title("Log Distribution of Original Loan Amount")
plt.xscale("log")
plt.xlabel("Log Loan Original Amount")
plt.ylabel("Distribution of Log Loan Original Amount")
plt.ylabel("Distribution of Log Loan Original Amount")
```



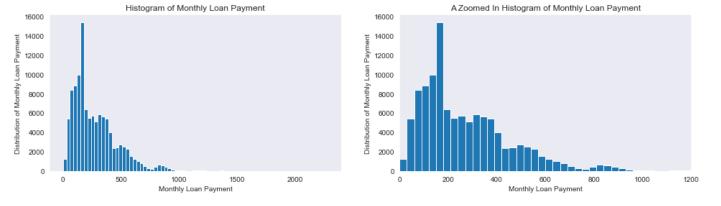
The distribution of LoanOriginalAmount is not skewed. Even with a log transformation, there is no

```
bin edge = np.arange(0, df["TotalTrades"].max() + 3, 3)
In [34]:
        plt.figure(figsize = (16, 4))
In [35]:
        plt.subplot(1, 2, 1)
        plt.title("A Histogram of Total Trades")
         plt.hist(data = df, x = "TotalTrades", bins = bin edge)
        plt.xlabel("Total Trades")
         plt.ylabel("Distribution of Total Trades")
        plt.subplot(1, 2, 2)
        plt.title("A Zoomed In Histogram of Total Trades")
         plt.hist(data = df, x = "TotalTrades", bins = bin edge)
        plt.xlabel("Total Trades")
        plt.xlim(0, 65)
         plt.ylabel("Distribution of Total Trades")
        plt.show()
```



While the distribution of TotalTrades was skewed to the right, it still showed that most people tended to have trade lines of between 20 - 25.

```
edges = np.arange(0, df["MonthlyLoanPayment"].max() + 30, 30)
In [36]:
        plt.figure(figsize = (16, 4))
In [37]:
         plt.subplot(1, 2, 1)
        plt.hist(data = df, x = "MonthlyLoanPayment", bins = edges)
         plt.title("Histogram of Monthly Loan Payment")
        plt.xlabel("Monthly Loan Payment")
        plt.ylabel("Distribution of Monthly Loan Payment")
        plt.subplot(1, 2, 2)
        plt.title("A Zoomed In Histogram of Monthly Loan Payment")
         plt.hist(data = df, x = "MonthlyLoanPayment", bins = edges)
         plt.xlabel("Monthly Loan Payment")
        plt.xlim(0, 1200)
         plt.ylabel("Distribution of Monthly Loan Payment")
        plt.show()
```



A closer look at the distribution of MonthlyLoanPayment showed that most people were expected to pay around 160 - 230 dollars.

# **Bivariate Exploration**

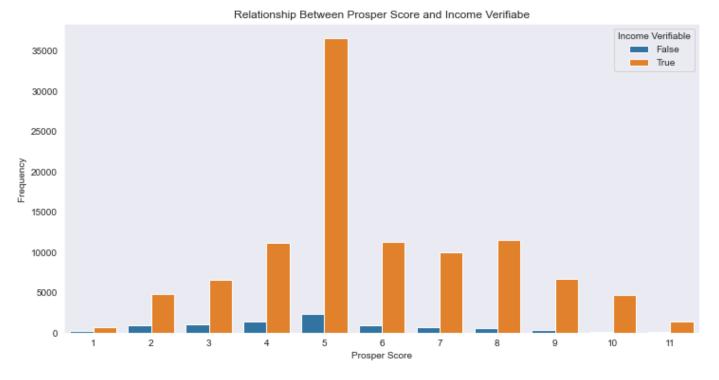
```
In [38]: plt.figure(figsize = (12, 6))
    sb.countplot(data = df, x = "ProsperScore", hue = "IncomeVerifiable")

plt.title("Relationship Between Prosper Score and Income Verifiabe")

plt.xlabel("Prosper Score")
    plt.ylabel("Frequency ")

plt.legend(title = "Income Verifiable")

plt.show()
```



The above visulization shows the relationship between the Prosper Score and Income Verifiable. It shows that verification of income plays an important role in the Prosper Score. Prosper Score 10 and 11, which are the highest, are only applied to those who have verifiable sources of income. But Prosper Score 5, which is the modal Score, has the most people with verified sources of income

```
In [39]: plt.figure(figsize = (16, 4))
    plt.subplot(1, 2, 1)
```

```
sb.countplot(data = df, x = "ProsperRating (numeric)", hue = "EmploymentStatus", hue_ord
plt.title("Relationship Between Prosper Rating and Employment Status")
plt.xlabel("Numeric Prosper Rating")
plt.ylabel("Frequency ")

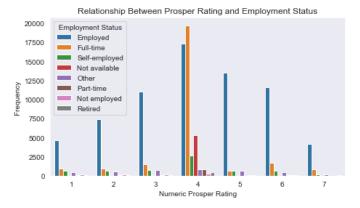
plt.legend(title = "Employment Status")

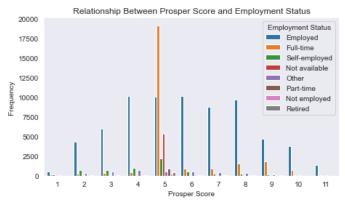
plt.subplot(1, 2, 2)
sb.countplot(data = df, x = "ProsperScore", hue = "EmploymentStatus", hue_order = arr)

plt.title("Relationship Between Prosper Score and Employment Status")
plt.xlabel("Prosper Score")
plt.ylabel("Frequency ")

plt.legend(title = "Employment Status", loc = "upper right")

plt.show()
```





The above visulization shows the relationship between the Numeric Prosper Rating and Prosper Score against Employment Status. It shows that for every Rating and Score, Employed people made up most of the consideration. Not available and Part-time made up the least except in the Rating 4 and Score 5 where Full-time makes the highest consideration and Not available also made a considerable portion compared to others.

```
In [40]: c = sb.color_palette()[4]

plt.figure(figsize = (16, 4))

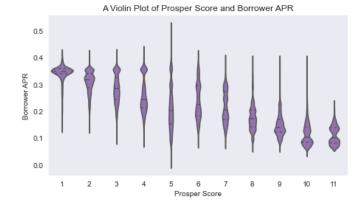
plt.subplot(1, 2, 1)
plt.title("A Violin Plot of Prosper Score and Borrower APR")
    sb.violinplot(data = df, x = "ProsperScore", y = "BorrowerAPR", inner = "quartile", colo

plt.xlabel("Prosper Score")
plt.ylabel("Borrower APR")

plt.subplot(1, 2, 2)
plt.title("A Box Plot of Prosper Score and Borrower APR")
    sb.boxplot(data = df, x = "ProsperScore", y = "BorrowerAPR", color = c)

plt.xlabel("Prosper Score")
plt.ylabel("Borrower APR")

plt.show()
```



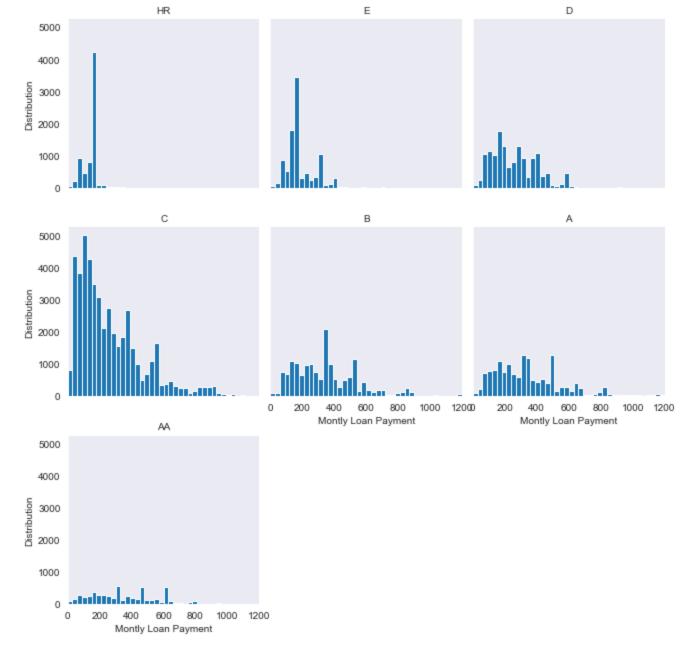


The above visulization shows the relationship between the Prosper Score and Borrower APR. It shows that Prosper Score 5 had a wider range of Borrower APR and the lowest Borrower APR of all the Score. Prosper Score 4 had the highest Borrower APR. Though there were a lot of outliers in Prosper Score 1 and it also had the lowest range of Borrower APR.

```
In [41]: g = sb.FacetGrid(data = df, col = "ProsperRating (Alpha)", col_wrap = 3)
    g.map(plt.hist, "MonthlyLoanPayment", bins = edges)
    g.set_titles("{col_name}")

g.set(xlim = (0, 1200))
    g.set_xlabels("Montly Loan Payment")
    g.set_ylabels("Distribution")

plt.show()
```



The above visulization shows the distribution of Monthly Loan Payment for each Alphabetic Prosper Rating. It shows that Rating C had the most occurrence of Monthly Loan Payment.

```
In [42]: plt.figure(figsize = (14, 16))
plt.subplot(3, 1, 1)
corr = df["TotalTrades"].corr(df["CurrentCreditLines"])

plt.scatter(data = df, x = "TotalTrades", y = "CurrentCreditLines", alpha = 0.1)
plt.plot([0, 120], [0, 60])

plt.title(f"Relationship Between Total Trades and Current Credit Lines with a correlatio plt.xlabel("Total Trades")
plt.ylabel("Current Credit Lines")

plt.subplot(3, 1, 2)
corr = df["TotalTrades"].corr(df["OpenCreditLines"])

plt.scatter(data = df, x = "TotalTrades", y = "OpenCreditLines", alpha = 0.1)
plt.plot([0, 120], [0, 60])

plt.title(f"Relationship Between Total Trades and Open Credit Lines with a correlation o plt.xlabel("Total Trades")
```

```
plt.ylabel("Open Credit Lines")
plt.subplot(3, 1, 3)
corr = df["TotalTrades"].corr(df["TotalCreditLinespast7years"])
plt.scatter(data = df, x = "TotalTrades", y = "TotalCreditLinespast7years", alpha = 0.1)
plt.plot([0, 120], [0, 140])
plt.title(f"Relationship Between Total Trades and Total Credit Lines In The Past 7 Years
with a correlation of {round(corr, 2)}")
plt.xlabel("Total Trades")
plt.ylabel("Total Credit Lines In The Past 7 years")
plt.show()
                             Relationship Between Total Trades and Current Credit Lines with a correlation of 0.68
  60
  50
 Current Credit Lines
  20
   10
   0
                                                                                                             120
                                                           Total Trades
                              Relationship Between Total Trades and Open Credit Lines with a correlation of 0.64
   60
  50
   40
Open Credit Lines
   10
   0
                                                                                                             120
                                                           Total Trades
                       Relationship Between Total Trades and Total Credit Lines In The Past 7 Years with a correlation of 0.9
  140
  120
Total Credit Lines In The Past 7 years
  100
  80
  60
   40
   20
```

The above visulization shows the relationship between the Total Trades and Current Credit Lines,

Total Trades

100

120

40

0

20

Open Credit Lines and Total Credit Lines In The Past 7 Years. It shows that they are all positively correlated with Total Credit Lines In The Past 7 Years having the highest correlation.

```
In [43]: plt.figure(figsize = (16, 4))

plt.subplot(1, 2, 1)
    sb.countplot(data = df, x = "ProsperScore", hue = "ProsperRating (numeric)")

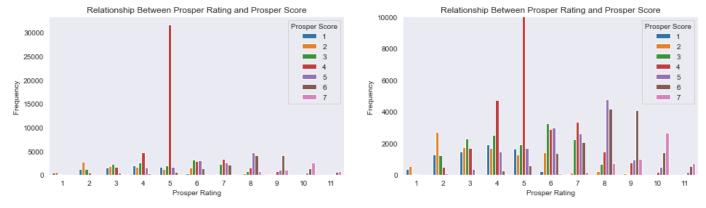
plt.title("Relationship Between Prosper Rating and Prosper Score")
    plt.xlabel("Prosper Rating")
    plt.ylabel("Frequency ")

plt.legend(title = "Prosper Score", loc = "upper right")

plt.subplot(1, 2, 2)
    sb.countplot(data = df, x = "ProsperScore", hue = "ProsperRating (numeric)")

plt.title("Relationship Between Prosper Rating and Prosper Score")
    plt.xlabel("Prosper Rating")
    plt.ylabel("Prequency ")
    plt.ylabel("Frequency ")
    plt.legend(title = "Prosper Score", loc = "upper right")

plt.show()
```



The above visulization shows the relationship between Prosper Rating and Prosper Score. Each Rating had varying levels of Score but Rating 5 had the highest Score of 4. I also noticed that Scores 8, 9, 10, 11 had no relationhip with the Ratings.

## **Relationship Between Main Features**

My main features showed some interesting relationships with themselves and other features. I observed that Prosper Rating influenced one's Prosper Score. The max Borrower APR tended to decrease as Prosper Score increased.

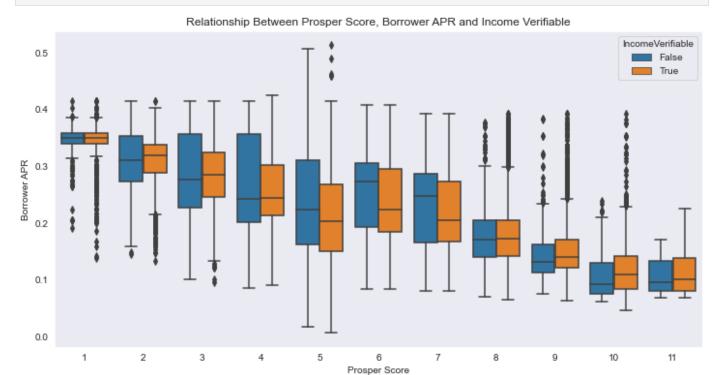
## **Relationship Between Other Features**

Employed people made up the highest composition of Ratings and also had better Ratings than others as did Income Verification wih Prosper Score. I also observed that the number of Trade Lines a person has positively influences their Credit Lines.

## **Multivariate Exploration**

```
In [44]: plt.figure(figsize = (12, 6))
    sb.boxplot(data = df, x = "ProsperScore", y = "BorrowerAPR", hue = "IncomeVerifiable")

plt.title("Relationship Between Prosper Score, Borrower APR and Income Verifiable")
    plt.xlabel("Prosper Score")
    plt.ylabel("Borrower APR")
plt.show()
```



## **Conclusions**

- The distribution of BorrowerAPR looks normal but with a spike in value at around 0.35 -0.37
- From the visualizations above, I observed that the ProsperRating (numeric) and ProsperRating (Alpha) are infact the same and the only difference was how they were represented. The frquency of these two increased as the ratings until they got to the modal rating and then began to fall. ProsperScore observed a similar pattern.
- The distribution of EmploymentStatus showed that Employed people tend to apply for loan more than others. It may be argued that this is because the missing values of those features were filled with their mode but that just implies that they were alreading leading results in said features
- The distribution of LoanOriginalAmount is not skewed. Even with a log transformation, there is no change. But most people had an origination amount of about 4000 5000
- While the distribution of TotalTrades was skewed to the right, it still showed that most people tended to have trade lines of between 20 25.
- A closer look at the distribution of MonthlyLoanPayment showed that most people were expected to pay around 160 230 dollars.
- The relationship between the Prosper Score and Income Verifiable shows that verification
  of income plays an important role in the Prosper Score. Prosper Score 10 and 11, which
  are the highest, are only applied to those who have verifiable sources of income. But
  Prosper Score 5, which is the modal Score, has the most people with verified sources of
  income.

- The relationship between the Numeric Prosper Rating and Prosper Score against
   Employment Status. It shows that for every Rating and Score, Employed people made up
   most of the consideration. Not available and Part-time made up the least except in the
   Rating 4 and Score 5 where Full-time makes the highest consideration and Not available
   also made a considerable portion compared to others.
- The relationship between the Prosper Score and Borrower APR that Prosper Score 5 had a wider range of Borrower APR and the lowest Borrower APR of all the Score. Prosper Score 4 had the highest Borrower APR. Though there were a lot of outliers in Prosper Score 1 and it also had the lowest range of Borrower APR.
- The distribution of Monthly Loan Payment for each Alphabetic Prosper Rating that Rating C had the most occurence of Monthly Loan Payment.
- The relationship between the Total Trades and Current Credit Lines, Open Credit Lines and Total Credit Lines In The Past 7 Years. It shows that they are all positively correlated with Total Credit Lines In The Past 7 Years having the highest correlation.
- The relationship between Prosper Rating and Prosper Score. Each Rating had varying levels of Score but Rating 5 had the highest Score of 4. I also noticed that Scores 8, 9, 10, 11 had no relationhip with the Ratings.