



Overview

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- Overview
- Alerts22
- Reproduction

Dataset statistics

Number of variables	27
Number of observations	396030
Missing cells	81591
Missing cells (%)	0.8%
Duplicate rows	0
Duplicate rows (%)	0.0%
Total size in memory	380.6 MiB
Average record size in memory	1007.8 B

Variable types

Numeric	12
Categorical	10
Unsupported	2
DateTime	2
Text	1

Variables

Select Columns

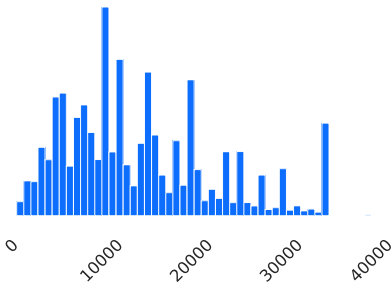
loan_amnt

Real number (\mathbb{R})

High correlation

Distinct	1397
Distinct (%)	0.4%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	14113.888

Minimum	500
Maximum	40000
Zeros	0
Zeros (%)	0.0%
Negative	0
Negative (%)	0.0%
Memory size	3.0 MiB

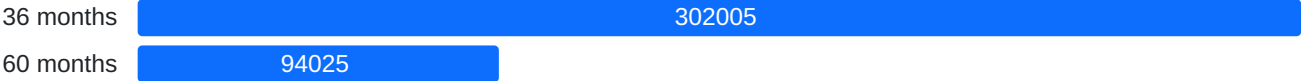


More details

term

Categorical

Distinct	2
Distinct (%)	< 0.1%
Missing	0
Missing (%)	0.0%
Memory size	25.3 MiB



More details

int_rate

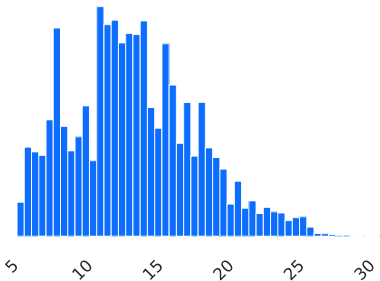
Real number (\mathbb{R})

High correlation

Distinct	566
Distinct (%)	0.1%
Missing	0
Missing (%)	0.0%
Infinite	0

Infinite	0
Infinite (%)	0.0%
Mean	13.6394

Minimum	5.32
Maximum	30.99
Zeros	0
Zeros (%)	0.0%
Negative	0
Negative (%)	0.0%
Memory size	3.0 MiB



More details

installment

Real number (\mathbb{R})

High correlation

Distinct	55706
Distinct (%)	14.1%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	431.8497

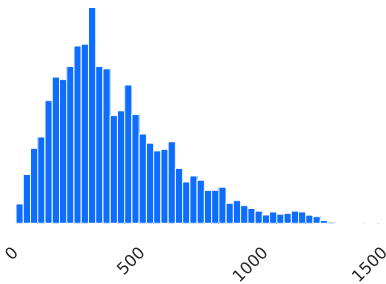
Minimum	16.08
Maximum	1533.81
Zeros	0
Zeros (%)	0.0%
Negative	0

Negative (%)

0.0%

Memory size

3.0 MiB



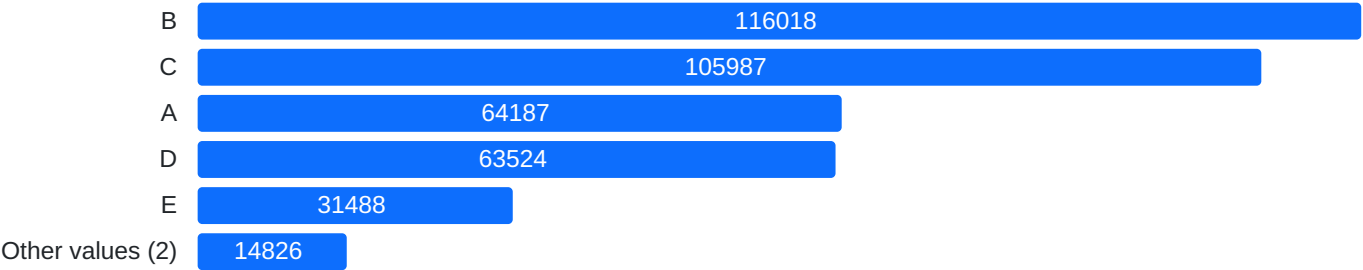
More details

grade

Categorical

High correlation

Distinct	7
Distinct (%)	< 0.1%
Missing	0
Missing (%)	0.0%
Memory size	21.9 MiB



More details

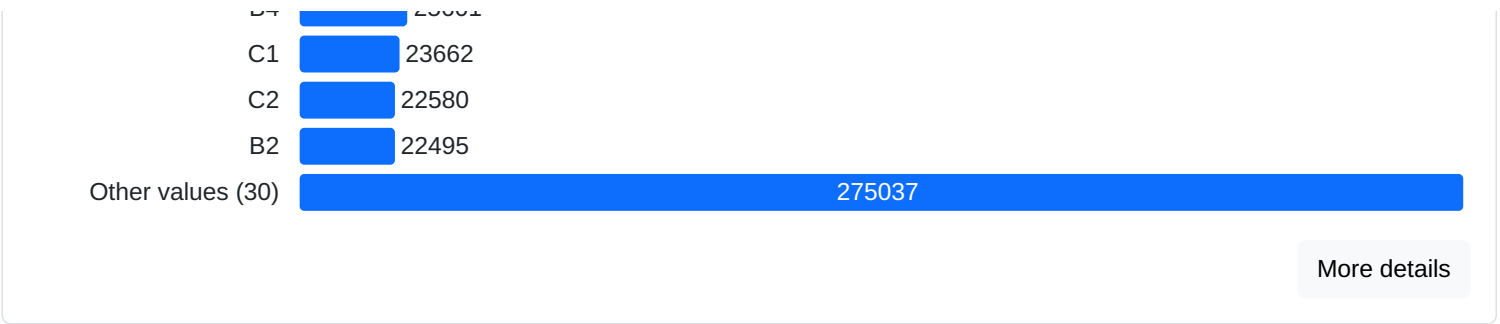
sub_grade

Categorical

High correlation

Distinct	35
Distinct (%)	< 0.1%
Missing	0
Missing (%)	0.0%
Memory size	22.3 MiB





emp_title

Unsupported

Missing

Rejected

Unsupported

Missing	22927
Missing (%)	5.8%
Memory size	26.9 MiB

emp_length

Categorical

High correlation

Missing

Distinct	11
Distinct (%)	< 0.1%
Missing	18301
Missing (%)	4.6%
Memory size	24.4 MiB

10+ years

126041

2 years

35827

< 1 year

31725

3 years

31665

5 years

26495

Other values (6)

125976

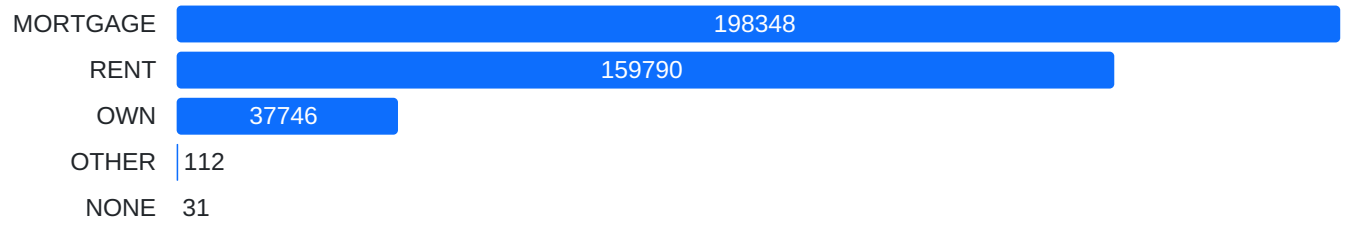
More details

home_ownership

Categorical

Distinct	6
Distinct (%)	< 0.1%
Missing	0
Missing (%)	0.0%
Memory size	23.8 MiB

memory size29.8 MiB



More details

annual_inc

Real number (\mathbb{R})

Skewed

Distinct	27197
Distinct (%)	6.9%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	74203.176
Minimum	0
Maximum	8706582
Zeros	1
Zeros (%)	< 0.1%
Negative	0
Negative (%)	0.0%
Memory size	3.0 MiB



More details

verification_status

Categorical

Distinct	3
Distinct (%)	< 0.1%
Missing	0
Missing (%)	0.0%
Memory size	25.9 MiB

Verified	139563
Source Verified	131385
Not Verified	125082

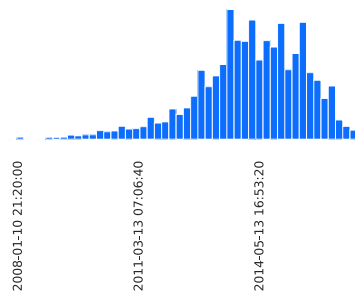
[More details](#)

issue_d

Date

Distinct	115
Distinct (%)	< 0.1%
Missing	0
Missing (%)	0.0%
Memory size	3.0 MiB

Minimum	2007-06-01 00:00:00
Maximum	2016-12-01 00:00:00
Invalid dates	0
Invalid dates (%)	0.0%


[More details](#)

loan_status

Categorical

Distinct	2
Distinct (%)	< 0.1%

Missing	0
Missing (%)	0.0%
Memory size	25.4 MiB

Fully Paid

318357

Charged Off

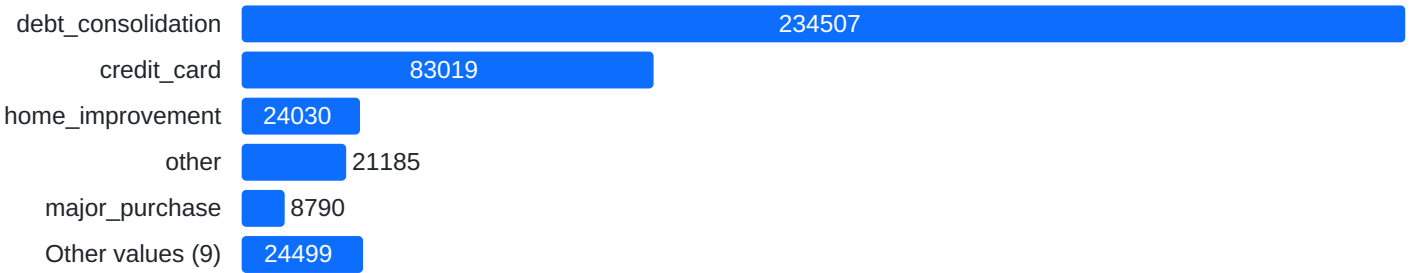
77673

More details

purpose

Categorical

Distinct	14
Distinct (%)	< 0.1%
Missing	0
Missing (%)	0.0%
Memory size	27.2 MiB



More details

title

Unsupported

Rejected Unsupported

Missing	1757
Missing (%)	0.4%
Memory size	28.0 MiB

dti

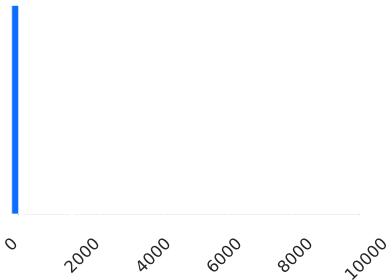
Real number (\mathbb{R})

High correlation Skewed

Distinct	4262
Distinct (%)	1.1%
Missing	0

Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	17.379514

Minimum	0
Maximum	9999
Zeros	313
Zeros (%)	0.1%
Negative	0
Negative (%)	0.0%
Memory size	3.0 MiB



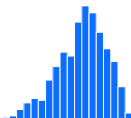
More details

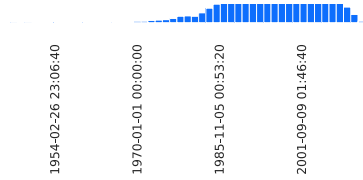
earliest_cr_line

Date

Distinct	684
Distinct (%)	0.2%
Missing	0
Missing (%)	0.0%
Memory size	3.0 MiB

Minimum	1944-01-01 00:00:00
Maximum	2013-10-01 00:00:00
Invalid dates	0
Invalid dates (%)	0.0%



[More details](#)

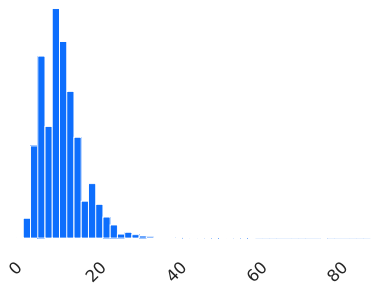
open_acc

Real number (\mathbb{R})

High correlation

Distinct	61
Distinct (%)	< 0.1%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	11.311153

Minimum	0
Maximum	90
Zeros	6
Zeros (%)	< 0.1%
Negative	0
Negative (%)	0.0%
Memory size	3.0 MiB

[More details](#)

pub_rec

Real number (\mathbb{R})

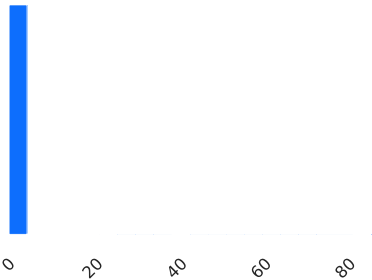
High correlation

Zeros

Distinct	20
Distinct (%)	< 0.1%

Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	0.17819105

Minimum	0
Maximum	86
Zeros	338272
Zeros (%)	85.4%
Negative	0
Negative (%)	0.0%
Memory size	3.0 MiB



More details

revol_bal

Real number (\mathbb{R})

Distinct	55622
Distinct (%)	14.0%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	15844.54

Minimum	0
Maximum	1743266
Zeros	2128
Zeros (%)	0.5%

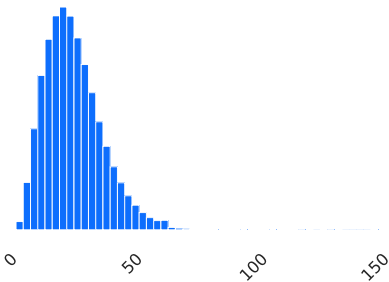
total_acc

Real number (\mathbb{R})

High correlation

Distinct	118
Distinct (%)	< 0.1%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	25.414744

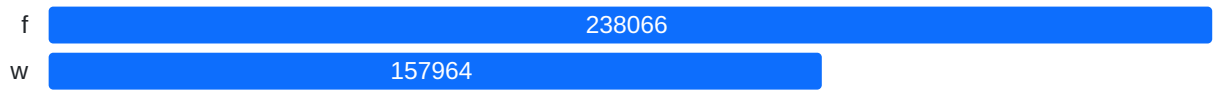
Minimum	2
Maximum	151
Zeros	0
Zeros (%)	0.0%
Negative	0
Negative (%)	0.0%
Memory size	3.0 MiB



initial_list_status

Categorical

Distinct	2
Distinct (%)	< 0.1%
Missing	0
Missing (%)	0.0%
Memory size	21.9 MiB



[More details](#)

application_type

Categorical

Imbalance

Distinct	3
Distinct (%)	< 0.1%
Missing	0
Missing (%)	0.0%
Memory size	25.3 MiB

INDIVIDUAL	395319
JOINT	425
DIRECT_PAY	286

[More details](#)

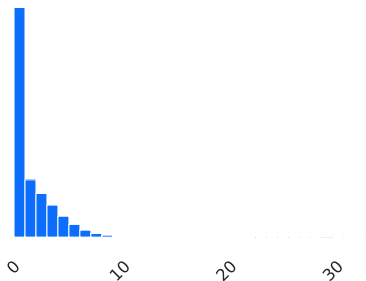
mort_acc

Real number (\mathbb{R})

Missing Zeros

Distinct	33
Distinct (%)	< 0.1%
Missing	37795
Missing (%)	9.5%
Infinite	0
Infinite (%)	0.0%
Mean	1.8139908

Minimum	0
Maximum	34
Zeros	139777
Zeros (%)	35.3%
Negative	0
Negative (%)	0.0%
Memory size	3.0 MiB



More details

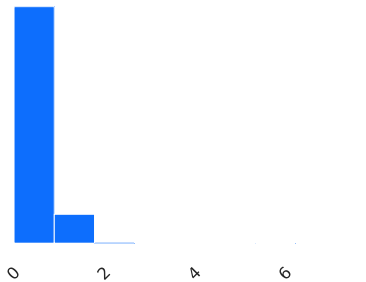
pub_rec_bankruptcies

Real number (\mathbb{R})

High correlation Zeros

Distinct	9
Distinct (%)	< 0.1%
Missing	535
Missing (%)	0.1%
Infinite	0
Infinite (%)	0.0%
Mean	0.12164756

Minimum	0
Maximum	8
Zeros	350380
Zeros (%)	88.5%
Negative	0
Negative (%)	0.0%
Memory size	3.0 MiB



More details

address

Text

Distinct	393700
Distinct (%)	99.4%
Missing	0
Missing (%)	0.0%
Memory size	40.7 MiB

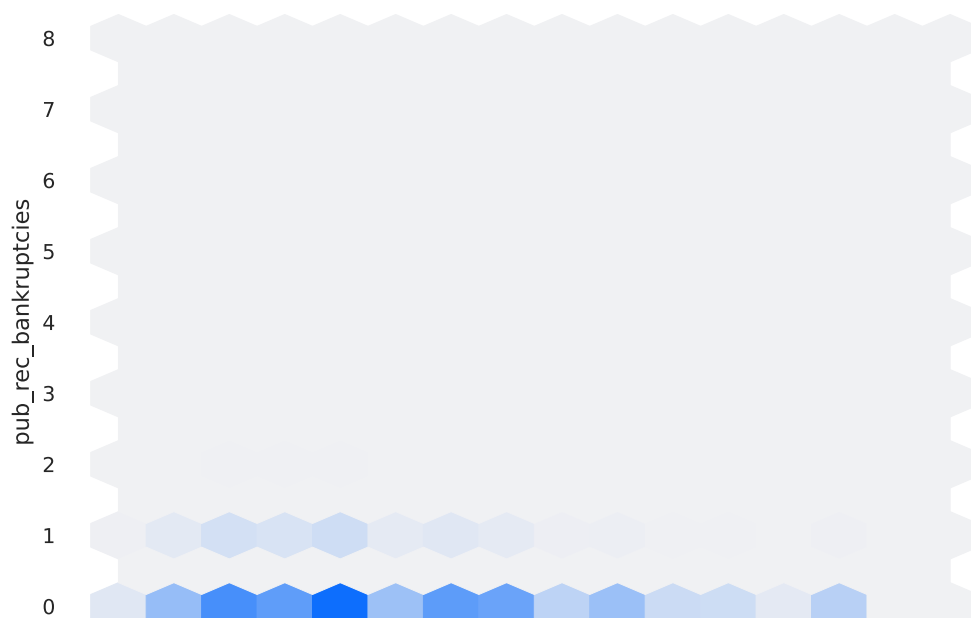


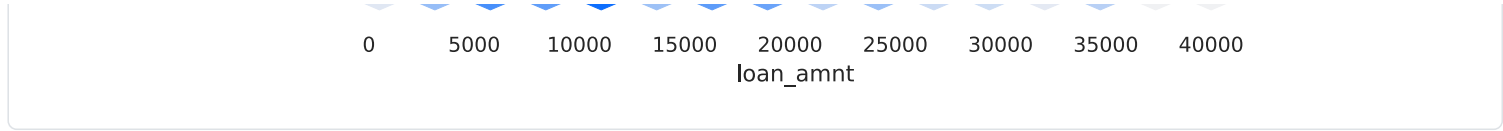
More details

Interactions

loan_amnt
int_rate
installment
annual_inc

```
pub_rec_bankruptcies
loan_amnt
int_rate
installment
```



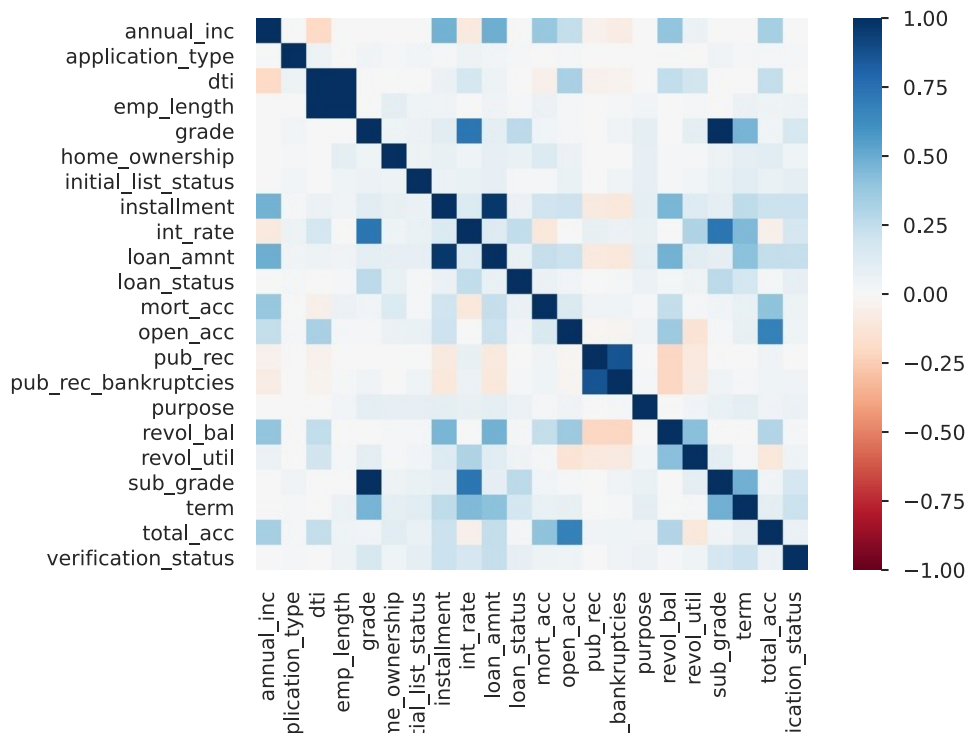


Correlations

Auto

Heatmap

Table

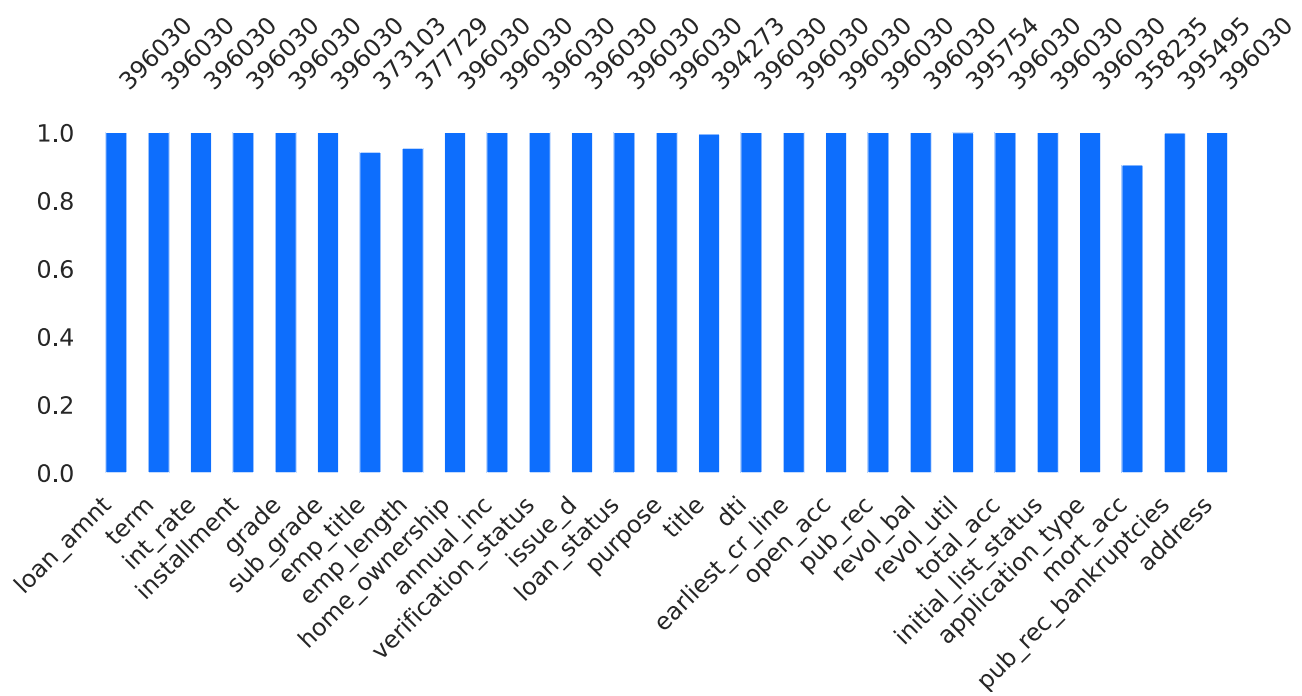


Missing values

Count

Matrix

Heatmap



Sample

First rows

Last rows

	loan_amnt	term	int_rate	installment	grade	sub_grade	emp_title	emp_length	home_ownership
0	10000	36 months	11.44	329.48	B	B4	Marketing	10+ years	RENTING
1	8000	36 months	11.99	265.68	B	B5	Credit analyst	4 years	MORTGAGE
2	15600	36 months	10.49	506.97	B	B3	Statistician	< 1 year	RENTING
3	7200	36 months	6.49	220.65	A	A2	Client Advocate	6 years	RENTING
4	24375	60 months	17.27	609.33	C	C5	Destiny Management Inc.	9 years	MORTGAGE
5	20000	36 months	13.33	677.07	C	C3	HR Specialist	10+ years	MORTGAGE
6	18000	36 months	5.32	542.07	A	A1	Software Development Engineer	2 years	MORTGAGE
7	13000	36 months	11.14	426.47	B	B2	Office Depot	10+ years	RENTING
8	18900	60 months	10.99	410.84	B	B3	Application Architect	10+ years	RENTING
9	26300	36 months	16.29	928.40	C	C5	Regado Biosciences	3 years	MORTGAGE