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# columns with \_null values will be replaced with t data

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### New section

	laan_aunt	ters	int_rate	installment	grade	60,00	te eng_	the emplement	th have_sumership	annual_inc	open_200	pub_rec	revol_tel	revol_util	total_acc	imitial_list_status	application_type	mort_acc	pub_rec_bankruptsies	address
0	10000.0	36 months	11.64	329.48			Mari	ding 10+ year	es RENT	117000.0	16.0	0.0	36369.0	41.6	250		INDIVIDUAL	0.0	0.0	0176 Michelle Gateway//nMendozaberg, OK 22690
1	9000.0	36 months	11.99	265.68			is Credit a	alyat diyes	es MORTOAGE	65000.0	17.0	0.0	20131.0	\$3.5	27.0	f	INDIVIDUAL	3.0	0.0	1674 Carney Fort Apt. 367y/t/Laganmouth, SD 65113
2	15600.0	36 months	12.69	506.97			C State	olan <1 ye	or RENT	49097.0	13.0	0.0	11997.0	923	26.0	f	INDIVIDUAL	0.0	0.0	87025 Mark Dale Apt. 26Fy YoNew Sabrina, WV 05113
2	7200.0	36 months	6.09	220.65	A		2 ClentAb	cate 6 year	es RENT	\$4000.0	6.0	0.0	\$472.0	21.5	19.0	f	INDIVIDUAL	0.0	0.0	823 Reid Fordy/ysDelaospaide, MA 00813
4	24375.0	60 months	17.27	629.33	c		S Destiny Manageme	Inc Vyes	es MORTOAGE	\$5000.0	13.0	0.0	26960	69.5	488	f	NOVEUM	1.0	0.0	679 Luna Roadstylndreggshire, VA 11650

# inc.countylai(x='tem',dataop) pli.stick(voidiaeds) E in this vioualizing how many people opted 36 manths plan and 88 manths plan E howe mare number of people are opted for 38 manths plan



	14	an_aunt	Leru	int_rate	installment	grade	sub_grade	emp_title	esp_length	home_ownership	annual_inc	1	open_acc	pub_rec	revol_ball	revel_stil	tetal_acc	imitial_list_status	application_type	mort_acc	pub_rec_bankruptcles	address
- 7		10000.0	36 months	11.64	329.48		94	Maketing	10+years	RENT	117000.0		16.0	0.0	36361.0	41.8	25.0		INDIVIDUAL	0.0	0.0	0174 Michelle Gatewayl/yiMenduzaberg, DK 22690
		9000.0	36 months	11.99	265.68		95	Credit analyst	4 years	MORTOAGE	65000.0		17.0	0.0	20131.0	53:3	27.0	f	INDIVIDUAL	3.0	0.0	1976 Carney Fort Apt. 347/y/pLoganmouth, SD:95113
		15600.0	36 months	12.69	506.97		93	Statistician	< 1 year	RENT	43057.0		13.0	0.0	11987.0	92.2	26.0	f	INDIVIDUAL	0.0	0.0	87025 Mark Dale Apt. 2697/y/New Sabrina, WV 25113



	ana, pant	tera	int_rate	installment	grade s	ah_grade	esp_title	esp_length	hane_sunership	annual_inc	49	es_200	pala_rec	reval_bas	revol_util	total_acc	Initial_list_status	application_typ	e sertace p	nd,rec_baskruptcies	address
	100003	36 months	11.66	329.48		84	Marketing	10+ years	RENT	117000.0		16.0	0.0	36369.0	41.8	250		NOVEU	4 0.0	0.0	0176 Michelle Gateway//vMendczaberg, OK 22690
1	8000.3	36 months	11.99	265.68		85	Credit analyst	4 years	MORTSAGE	65000.0		17.0	0.0	20131.0	53.3	27.0		NOVEU	4 30	0.0	1076 Carriery Fort Apt. 367y/y/Laganmouth, SD 05113
2	196000	36 months	10.48	506.97		83	Statistician	< 1 year	RENT	49097.0		13.0	0.0	11987.0	92.2	26.0		NOVEU	4 0.0	0.0	87025 Mark Dale Apt. 26Fy/1/New Sabrina, WV 05113
3	72000	36 months	6.01	220.65		A2	Client Advocate	6 years	RENT	54000.0		6.0	0.0	5472.0	21.5	19.0		NOVEU	4 0.0	0.0	823 Reid Fordy/yiDelaosznáde, MA 00813
4	249760	60 months	17.27	629.33	c	CS	Destiny Management Inc.	9 years	MORTSAGE	\$5000.0		13.0	0.0	26960	69.8	49.0		NOVEU	4. 1.0	0.0	679 Luna Roads/yindireggshire, VA 11650
169673	240003	36 months	7.89	750.86		AS	Senior VP	1 year	MORTGAGE	170000.0		11.0	0.0	42291.0	67.2	31.0		NOVIDUA	4.0	0.0	834 Maldanada Forkstylychlawnside, ND 30723
169674	12000.0	34 months	12.49	421.39		85	Loan Agent	Syears	RENT	49000.0		10.0	0.0	7477.0	44.2	140		NOVEU	4 0.0	0.0	6150 Skinner Inlet State 790 y n Emilyborough,
169675	119760	34 months	6.99	357.35		AS	Memorial Stean Kettering Cancer Center	<1 year	RENT	40000.0		13.0	0.0	9688.0	19.8	23.0		NOVEU	4 0.0	0.0	ENG Gody Manors Apt. 129/1/Port April, AR 2
169676	12000.0	60 months	18.55	228.33	6	62	Assistant Ab	10+ years	RENT	97900.0		13.0	0.0	18902.0	63.1	32.0		NOVEU	4 30	0.0	9764 Robertson Grove Apt. 768/yoliast Emilyhav
169677	2000.0	36 months	21.49	75.86	6	63	Food giant i	0	0	0.0		0.0	0.0	0.0	0.0	0.0			0.0	0.0	0

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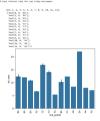
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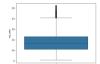
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-	96	12625-0	60 months	25.7W	276.36		FS	Nursing Assistant	7 years	MORTSAGE	43000.0		16.0	0.3	19993.0	\$5.7	31.0			INDIMEGAL	1.0	0.0	522 Melissa Villagely/mlast Janice, MT 00811	i i
	97	13400.0	60 months	25.83	299.80		62	DESIGNER	10+ years	MORTSAGE	\$6000.0		29.0	0.0	29945.0	84.5	44.0			INDIMEGAL	6.0	0.0	0326 Jacob Vial/FyLlacksonstad, MI 9370	à
1	133	13076-0	60 months	27.91	421.66		62	Clerk-specialist level	10+ years	MORTSAGE	54777.0		40	0.0	3845.0	98.2	27.6			INDIMEGAL	2.0	0.0	1522 Gill Greens Apt. 236/V/x3outh Cassandrafu.	
1	168	11930-3	60 months	28.99	274.46		65			RENT	44011.0		9.0	1.0	6913.0	67.2	13.0			INDIMEGAL	0.0	1.0	3019 Smith Manors Sub+ 602's Vol.ake Arthorybur	
1	104	343503	60 months	28.99	1090.13		65	Quality improvement data analyst	3 years	RENT	840003		11.0	1.0	8600.0	85.7	23.0			INDIMPLAL	0.0	1.0	5050 Somes Mill Suite 557//yillast Adamton, 50 -	
16	8963	20350-0	60 months	25.83	607.00		62	inventory supervises	10+ years	RENT	\$0000.0		28	0.0	722.0	90.2	6.0			INDIMEGAL	0.0	0.0	18522 Newton Kliey Apt. 1139/nLopezoide, VA.1.	
19	9350	35000.0	60 months	27.91	1075.31		62	Director of Global Social Marketing	2 years	RENT	166000.0		16.0	0.3	21203.0	61.5	41.0			INDIMEGAL	0.0	0.0	95755 Jenkins Welfyrydiaet Tyler, MI 1165	à
19	9462	14975.0	60 months	25.79	666.63		FS	dockmanager	10+ years	MORTSAGE	\$2000.0		80	0.3	2855.0	18.1	24.0			INDIMEGAL	1.0	0.0	3588 Evan Drives Apt. 136'y (nDanahaves, NC 3072	à
19	9469	18000.0	60 months	26.77	\$47.17		61	Senior Graphic Design Coordinator	10+ years	OWN	\$0000.0		160	0.3	16542.0	64.9	32.0			INDIMEGAL	0.0	0.0	48201 Edward Mountains Apt. 4921/1/Lake Gregor	

data																				
	2424,24	d term	int_rate	installment	grade	60,590	e em_title	emp_length	hase_sweership	ammual_inc	open_acc	pub_rec	reval_bal	revol_wiil	tetal_acc	imitial_list_status	application_typ	e sert,acc	pub_rec_bankruptcles	address
	1000	d 36 months	11.66	329.48			4 Marketing	10+ years	RENT	117000.0	16.0	0.0	36369.0	41.8	250		NOVIDUA	4 0.0	0.0	0178 Michelle Gabeway//yMendicaberg, OX 22690
1	800	d 36 months	11.99	265.68			S Credit analyst	4 years	MORTSAGE	65000.0	17.0	0.0	20131.0	53.3	27.0		NOVIDUA	4 30	0.0	1074-Carney Fort Apt. 367y/y/Laganmouth, SD 05113
2	1960	d 36 months	12.49	506.97			2 Statistician	< 1 year	RENT	49097.0	13.0	0.0	11997.0	92.2	26.0		NOVIDUA	4 0.0	0.0	87025 Mark Dale Apt. 2691/1/New Sabrina, WV 05113
3	723	d 36 months	6.00	220.65			2 Client Advocate	6 years	RENT	\$4000.0	6.0	0.0	5472.0	21.5	13.0		NOVIDUA	4 0.0	0.0	823 Reid Fordy/yithelacuspide, MA 00813
4	2497	d 40 months	17.27	629.33	c		S Destiny Management Inc.	9 years	MORTUNGS	\$5000.0	13.0	0.0	26960	69.8	49.0		NOVIDUA	4 1.0	0.0	679 Luna Roads/r)ndreggshire, VA 11650
1696	2 2400	d 36 months	7.89	750.86			S Senior VP	1 year	MORTUNGS	170000.0	11.0	0.0	42291.0	67.2	31.0		NOVIDUA	4 40	0.0	834 Maldanada Forksly'y Shawnside, ND 35723
1696	4 1200	d 36 months	12.49	421.39			S Loan Agent	Syears	RENT	49000.0	10.0	0.0	7477.0	44.2	140		NOVIDUA	4 0.0	0.0	6150 Skinner Inlet Suite 7421/yrlämilyborough,
1696	s 1157t	d 36 months	6.99	357.35			3 Memorial Steam Kettering Cancer Center	<1 year	RENT	40000.0	13.0	0.0	9686.0	19.8	23.0		NOVIDUA	4 0.0	0.0	67k3 Cindy Manors Apr. 129/19/Port April, AR 2
1696	6 1200	d 60 months	18.55	228.33			2 Assistant AD	10+ years	RENT	97900.0	13.0	0.0	18902.0	63.1	32.0		NOVIDUA	4 30	0.0	9764 Robertson Grove Apt. 768/yoliast Emilyhav
1696	7 200	d 36 months	21.49	75.86			2 Food giant i	0	0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	

I finding relationship between different features, but much correlation is there many different independent features data-data[data] "ana, claim" [1-8]
data-data[data] "ana, claim" [1-8]

Import re

def strati\_mameris(value):

match = re.cmarch(r\*\dn\*, value)

If match:

return inf(match.group())

else:

return inne

data("term")-data("term")-apply(strast\_numeris)

Start sading or generate with AL

# likel ecoding is reported because features contains tend data that data we cant use it in the authoratical model # thats why we are going to convert tend data into numerical values.

yodata['laan\_status'] xodata.drop(columns['loan\_status'],asiso1)

Sodes(['Sam\_ment', 'Same', 'Sat\_pube', 'Santalaset', 'gashe', 'Santalaset', 'gashe', 'Santalaset', 'gashe', 'Santalaset', 'gashe', 'Santalaset', 'Santa

yey-ta\_frame()

yoy['loan\_status'].map(('Fully Fald':0,'Charged Off':1))

Start coding or generale with AL from sklears.model\_selection import train\_test\_split

x\_train,x\_test,y\_train,y\_test-train\_test\_split(x,y,test\_sized.1,randsm\_state=78)

From balance perpensioning impart simulations

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 $x\_train(`emp_Litte'), x\_train(`time\_innership'), slr. fit\_train(inne(x\_train(`emp_Litte')), lr. fit\_trainform(x\_train(`emp_Litte')), lr. fit\_train(`emp_Litte')), lr. fit\_train(`emp_Litte')), lr. fit\_$ 

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is tradefrook analet haz-fat transform's tradefrook analet to

x trainf laddress liver-fits transfereds trainf laddress (1)

x\_test["grade"]olr.fit\_transfore(x\_test["grade"]) x\_test["sub\_grade"]olr.fit\_transfore(x\_test["sub\_grade"])

BThis is the code you are required to use

Start using or generate with AL Start coding or generate with AL

Description of the second series of the second second

x\_lest['initial\_list\_status']ols.fit\_transform(x\_lest['initial\_list\_status'] x\_lest['application\_type']ols.fit\_transform(x\_lest['application\_type'])

s\_test['home\_numership']slr.fil\_transfore(s\_test['home\_numership']) s\_test['address']slr.fil\_transfore(s\_test['address']) s\_test

-																						
		Joan_annt	term	int_rate	installment	grade	sub_grade	esg_title	esp_length	hose_ounership	annual_inc	apen, acc	palcyni	revol_bas	resijstii	total_acc	initial_list_status	application_type	mert_acc	pub_rec_bankruptcies	address	
	1108	10000.3	26	14.33	343.39	2	10	1 Hubbandton Forge	< 1 year	2	\$4000.0	12.0	0.0	27929.0	52.1	39.0			1.0	6.0	228	'n
	824	11500.0	26	12.12	392.63	1		7 89-90	2 years	0	33000.0	12.0	0.0	161093	25.6	18.0	1		1.0	6.0	123	
	757	4925.0	26	12.12	193.96	1		7 NA	Syears	0	87000.0	16.0	0.0	12496-0	52.6	19.0	4		1.0	6.0	See	
	12	5000.0	26	10.99	163.67	1		Electrican	7 years	2	\$2000.0	11.0	0.0	9855.0	27.3	19.0	4		0.0	6.0	\$11	
	os	25003	26	8.67	79.12	1	1	Front Desk Reception	10+years	2	26500.0	11.0	0.0	4463.0	56.0	39.0	0		9.0	0.0	331	
	1631	18000.0	26	11.67	\$45.03	1		Associated Director	Tyear	0	115000.0	8.0	0.0	13816-0	70.5	18.0	0		9.0	0.0	406	
	295	12000.0	26	6.62	368.45		1	Store Manage	6 years	2	95000.0	15.0	0.0	174803	46.7	32.0	1		9.0	0.0	5318	
	290	8000.3	26	6.09	245.16		1	sell technician	10+years	1	106368.0	6.0	0.0	6642.0	11.6	14.0	1		2.0	0.0	429	
	1892	25000.0	60	17.86	632.94	3	19	9 Sys Admir	10+years	1	102000.0	12.0	0.0	27455.0	74.2	21.0	1		2.0	0.0	586	
	1335	17000.0	26	10.64	553.67	1		i southern california gas company	10+years	0	89290.0	8.0	0.0	25642.0	89.0	32.0	1		50	0.0	551	
	AA 104	a v 16 colum																				

def extract(numeric):
 return("".jubn(filter(ctr.indigit,str(numeric))))
x\_text['emp\_length']: x\_text['emp\_length'].apply(extract)

	Sean_asst	tere	int_rate	installment	grade	sub_grade	esg_title	esp_length	hose_ounership	annual_inc	apen_acc	palcyni	revol_840	revol_stil	total_acc	isitial_list_status	application_type	mort_acc	pub_rec_bankruptci	es 20	gress.
1108	10000.3	26	14.33	343.39	2	10	Hubbandton Forge	- 1	2	\$4000.0	12.0	0.0	27929.0	52.1	39.0			1.0		03	228
824	11500.0	26	12.12	392.63	1	7	Att 60	2	0	33000.0	12.0	0.0	16169.0	25.6	18.0	1		1.0		0.0	123
797	4525.0	26	12.12	150.56	1	7	NAF	s	0	97000.0	16.0	0.0	12106-0	52.6	19.0			1.0		0.0	509
93	5000.0	26	10.99	163.67	1	- 6	Electrician	2	2	\$2000.0	11.0	0.0	9855.0	27:3	19.0			0.0		0.0	\$11
476	2500.0	26	8.67	79.12	1	5	Frant Desk Reception	10	2	34500.0	11.0	0.0	4693	56.0	39.0			3.0		0.0	331
1431	18000.0	26	11.67	595.03	1		Associated Director	1	0	115000.0	8.0	0.0	13916-0	70.5	18.0	0	0	3.0		0.0	436
215	12000.0	26	6.62	368.45	0	1	Store Manage	6	2	95000.0	15.0	0.0	17400.0	46.7	32.0	1	0	3.0		0.0	5318
890	8000.0	26	6.09	245.16	0	1	cell technician	10	1	104048.0	6.0	0.0	6642.0	11.6	14.0	1		2.0		0.0	429
1892	25000.0	60	17.86	632.94	3	19	Sys Admin	10	1	102000.0	12.0	0.0	27455-0	74.2	21.0	1	0	2.0		0.0	586
1335	17000.0	26	10.64	553.67	- 1	- 6	southern california gas company	10	0	95290.0	8.0	0.0	25642.0	89.0	32.0	1	0	50		0.0	551
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	4424	os 'pandas.core.frane.	Entaframe">	
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		creal still	1000 non-mail	f 140
		total acc	1000 non-mail	f 140
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		es: (leases(IE), lesse		

x\_train('earliest\_or\_line').pd.to\_numerio(x\_train('earliest\_or\_line'),errors.'coerce')

```
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x_test['emp_length']upd.to_numerid(x_test['emp_length'))
x_test['emp_length']upd.to_numerid(x_test['enrification_status'],errors='conrece')
                      | The second sec
    x_test['earliest_or_line']-pd.to_numeric(x_test['earliest_or_line'],errors-'coerce')
x_test["title"]-pd.ta_numeric(x_test["title"],errors='cserce")
x testificae d'had to mercials testificae d'hercoraficerari)
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    x_test('emp_title')opd.tx_numeric(x_test('emp_title'),errors-'sserie')
x_test.info()
        | Compared to the compared to 
    R all object data types are converted to integers and floats standard scaler will be applicable to numericals not strings. R we can do called
    tinStandardScaler()
a_trainingd_datatrame(st.fil_transform(s_train),calumns.a_train.calumns)
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# these are weight values
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    y_predictining_oredict(x_feet)

8 based on threshold value: It will find out firetly it will find the mathematical model based calculations and after that
8 values will be transformed to 8 or 1
y_predicts!
```

# 

from silears.metrics impart accuracy\_core\_confucion\_matrix\_classification\_report
y\_test.value\_counts() I for imbalanced dataset us should have to sheek precision and recall score for that

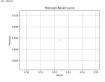
loam\_status 0 d85 1 ll5 Name: count, dlype: lottd

8 we see going in field the main performance like has many are current and of total predictions accords, Norweg, publishing, 1501/1288 8 MI percent records are correctly predicted and of 180 records ML.8

E here II is classified that ITS recents are true negative values
E here II is classified that ID recents are false negative values
E II are from positive values
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I II die er false positives
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from sileno-metrics import precision\_core\_precisi\_core precision\_core(p\_prediest,y\_fest) precision e.emosiz799200466E

import matplotlib.pyplot as plt



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