 LP001003 Male Yes LP001005 Male Yes LP001006 Male Yes LP001008 Male No 	0 Graduate1 Graduate0 Graduate0 Not Graduate	If_Employed Applica No No Yes No No	5849 4583 3000 2583 6000	0.0 1508.0 0.0 2358.0	NaN 128.0 66.0 120.0 141.0	360.0 360.0 360.0 360.0 360.0	1.0 1.0 1.0 1.0 1.0	operty_Area Lo Urban Rural Urban Urban Urban Urban	oan_Status Y N Y Y Y						
	0 Graduate 3+ Graduate 1 Graduate 2 Graduate	No No No No Yes	 2900 4106 8072 7583 4583	0.0 0.0 0.0 240.0 0.0	71.0 40.0 253.0 187.0 133.0	360.0 180.0 360.0 360.0 360.0	1.0 1.0 1.0 1.0 0.0	Rural Rural Urban Urban Semiurban	 Y Y Y Y						
Loan_ID Gender Married 0 LP001002 Male No 1 LP001003 Male Yes 2 LP001005 Male Yes 3 LP001006 Male Yes 4 LP001008 Male No	0 Graduate1 Graduate0 Graduate0 Not Graduate	If_Employed Applica No No Yes No No	5849 4583 3000 2583 6000	0.0 0.0 1508.0 0.0 2358.0 0.0	OanAmount Loa NaN 128.0 66.0 120.0 141.0	an_Amount_Term Cre 360.0 360.0 360.0 360.0 360.0	1.0 1.0 1.0 1.0 1.0	operty_Area Lo Urban Rural Urban Urban Urban	oan_Status Y N Y Y Y						
	0 Graduate 3+ Graduate 1 Graduate 2 Graduate 0 Graduate	NO NO NO NO Yes	 2900 4106 8072 7583 4583	 0.0 0.0 240.0 0.0 0.0	71.0 40.0 253.0 187.0 133.0	 360.0 180.0 360.0 360.0	1.0 1.0 1.0 1.0 0.0	Rural Rural Urban Urban Semiurban	 Y Y Y Y						
df["total_household_income"] df Loan_ID Gender Married 0 LP001002 Male No 1 LP001003 Male Yes 2 LP001005 Male Yes 3 LP001006 Male Yes 4 LP001008 Male No	DependentsEducationSelection0Graduate1Graduate0Graduate0Not Graduate			0.0 1508.0 0.0 2358.0	NaN 128.0 66.0 120.0 141.0	an_Amount_Term Cre 360.0 360.0 360.0 360.0 360.0	1.0 1.0 1.0 1.0 1.0	operty_Area Lo Urban Rural Urban Urban Urban	oan_Status total_h Y N Y Y Y	5849.0 6091.0 3000.0 4941.0 6000.0					
609 LP002978 Female No 610 LP002979 Male Yes 611 LP002983 Male Yes 612 LP002984 Male Yes 613 LP002990 Female No 14 rows × 14 columns df_acc_total=df.loc[df["Loan	0 Graduate 3+ Graduate 1 Graduate 2 Graduate 0 Graduate		 2900 4106 8072 7583 4583	0.0 0.0 240.0 0.0 0.0	71.0 40.0 253.0 187.0 133.0	360.0 180.0 360.0 360.0 360.0	1.0 1.0 1.0 1.0 0.0	Rural Rural Urban Urban Semiurban	 Y Y Y Y	2900.0 4106.0 8312.0 7583.0 4583.0					
df_rej_total=df.loc[df["Loan ttest_ind(df_acc_total,df_re Ttest_indResult(statistic=-0 df_acc_total.mean() 6888.585118456492 df_rej_total.mean() 7323.885416666667	n_Status"]=="N"]["total_hous	sehold_income"])												
sns.kdeplot(df_acc_total) sns.kdeplot(df_rej_total) <axessubplot:xlabel='total_h -="" -<="" 0.00006="" 0.00008="" 0.00012="" 0.00014="" td=""><td>nousehold_income', ylabel='I</td><td>Density'></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></axessubplot:xlabel='total_h>	nousehold_income', ylabel='I	Density'>													
0.000004 0.000002 0.000000 0 200000 4000 total_house kstest(df_acc_total, df_rej_t KstestResult(statistic=0.083 bins=[0, 2500, 4000, 6000, 8	ehold_income :otal) 82099131121643, pvalue=0.299 8000, 10000, 81000]														
labels=['Low', 'Average', 'med df["total_income_bins"]=pd.cd df Loan_ID Gender Married 0 LP001002 Male No 1 LP001003 Male Yes 2 LP001005 Male Yes 3 LP001006 Male Yes 4 LP001008 Male No	Dependents Education Sel O Graduate 1 Graduate O Graduate O Not Graduate	<mark>ome"</mark>],bins=bins,la			0anAmount Loa NaN 128.0 66.0 120.0 141.0	360.0 360.0 360.0 360.0 360.0 360.0	1.0 1.0 1.0 1.0 1.0	operty_Area Lo Urban Rural Urban Urban Urban	oan_Status total_h	ousehold_income to 5849.0 6091.0 3000.0 4941.0 6000.0	tal_income_bins medium h1 Average medium medium				
	0 Graduate 3+ Graduate 1 Graduate 2 Graduate 0 Graduate	NO NO NO NO Yes	 2900 4106 8072 7583 4583	0.0 0.0 240.0 0.0 0.0	71.0 40.0 253.0 187.0 133.0	360.0 180.0 360.0 360.0 360.0	1.0 1.0 1.0 1.0 0.0	Rural Rural Urban Urban Semiurban	 Y Y Y Y	 2900.0 4106.0 8312.0 7583.0 4583.0	Average medium h2 h1 medium				
total_income_bins Low Average Loan_Status N 14 32 Y 10 87 chi2_contingency(pd.crosstab) (10.434284908336592, 0.06382460733584135,	e medium h1 h2 Very high 2 65 39 13 29 7 159 76 32 58)												
14.07166124, 27.2	78827362, 153.95439739, 79 79478827]]))														
Loan_ID Gender Married 0 LP001002 Male No 1 LP001003 Male Yes 2 LP001005 Male Yes 3 LP001006 Male Yes 4 LP001008 Male No 609 LP002978 Female No	0 Graduate 1 Graduate 0 Graduate 0 Not Graduate 0 Graduate 0 Graduate	No No Yes No No No No	5849 4583 3000 2583 6000 2900	0.0 1508.0 0.0 2358.0 0.0 	NaN 128.0 66.0 120.0 141.0 	360.0 360.0 360.0 360.0 360.0 360.0	1.0 1.0 1.0 1.0 1.0 	Urban Rural Urban Urban Urban Rural	Y N Y Y Y Y	5849.0 6091.0 3000.0 4941.0 6000.0 2900.0	medium h1 Average medium medium Average				
610 LP002979 Male Yes 611 LP002983 Male Yes 612 LP002984 Male Yes 613 LP002990 Female No 14 rows × 15 columns df["monthly_emi"]=(df["LoanAdf["monthly_emi"]	1 Graduate2 Graduate0 Graduate	No No No Yes	4106 8072 7583 4583	0.0 240.0 0.0 0.0	40.0 253.0 187.0 133.0	180.0 360.0 360.0 360.0	1.0 1.0 1.0 0.0	Rural Urban Urban Semiurban	Y Y Y N	4106.0 8312.0 7583.0 4583.0	medium h2 h1 medium				
NaN 1 355.55556 2 183.333333 3 333.333333 4 391.666667 609 197.222222 610 222.22222 611 702.777778 612 519.444444 613 369.444444 Name: monthly_emi, Length: 6 df["ability_to_pay_emi_10"]=		me"]*0.1)>df["mon	thly_emi"]).as	stype("int")											
Loan_ID Gender Married 0 LP001002 Male No 1 LP001003 Male Yes 2 LP001005 Male Yes 3 LP001006 Male Yes 4 LP001008 Male No	 0 Graduate 1 Graduate 0 Graduate 0 Not Graduate 0 Graduate 	If_Employed Applica No No Yes No No No No No No No No No N	5849 4583 3000 2583 6000	0.0 1508.0 0.0 2358.0 0.0	NaN 128.0 66.0 120.0 141.0	360.0 360.0 360.0 360.0 360.0 360.0	1.0 1.0 1.0 1.0 1.0 1.0	operty_Area Lo Urban Rural Urban Urban Urban	oan_Status total_h	ousehold_income to 5849.0 6091.0 3000.0 4941.0 6000.0	medium h1	monthly_emi a NaN 355.55556 183.333333 333.333333 391.666667	bility_to_pay_em	i_10 0 1 1 1 1	
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1 522 9 92 Name: ability_to_pay_emi_10, sns.countplot(data=df,x="abi <axessubplot:xlabel='ability 350 - 300 - 250 -</axessubplot:xlabel='ability 	llity_to_pay_emi_10",hue="Lo														
200 - 150 - 100 - 50 - 0 ability_to_pay_ pd.crosstab(df["ability_to_p Loan_Status N Y		s"])													
ability_to_pay_emi_10 0 44 48 1 148 374 chi2_contingency(pd.crosstab) (12.909621328812786, 0.0003268974206671644, 1, array([[28.76872964, 63.2	o(df["ability_to_pay_emi_10"	"],df["Loan_Status	s"]))												
<pre>[163.23127036, 358.7 chi2_contingency? df["ability_to_pay_emi_50"]= sns.countplot(data=df, x="abi</pre>	=((df["total_household_inco		thly_emi"]).as	stype("int")											
<pre>AxesSubplot:xlabel='ability 400 - 350 - 250 - 200 - 150 - 100 -</pre>															
ability_to_pay_c chi2_contingency(pd.crosstab (5.06370716479013, 0.024431922578328144, 1, array([[12.19543974, 26.8 [179.80456026, 395.1	o(df["ability_to_pay_emi_50"	"],df["Loan_Status	s"]))												
'Loan_Amount_Term', ' 'total_household_inco 'ability_to_pay_emi_1 dtype='object') chi2_contingency(pd.crosstab	olicantIncome', 'Coapplican Credit_History', 'Property ome', 'total_income_bins', LO', 'ability_to_pay_emi_50	tIncome', 'LoanAmo _Area', 'Loan_Stai 'monthly_emi',													
Sns.countblot(data=dt.x="Gre	odit History busy Hosp Ctor		s"]))												
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