

Screenshots of user interface and output visualization

1. Give the input of the required details as directed in the interface.

```
In [*]: i1 = int(input("Applicant Income = "))
```

Applicant Income =

```
In [*]: i5 = int(input("Property Area (Enter 2 if 'Urban', 1 if 'Semi-Urban', 0 if 'Rural') = "))
```

Property Area (Enter 2 if 'Urban', 1 if 'Semi-Urban', 0 if 'Rural') =

2. After filling the all the details, Interface looks like :-



```
In [24]: i1 = int(input("Applicant Income = "))
```

Applicant Income = 2583

```
In [25]: i2 = int(input("Co-Applicant Income = "))
```

Co-Applicant Income = 2358

```
In [26]: i3 = int(input("Loan Amount = "))
```

Loan Amount = 120

```
In [27]: i4 = int(input("Loan Term = "))
```

Loan Term = 360

```
In [28]: i5 = int(input("Property Area (Enter 2 if 'Urban', 1 if 'Semi-Urban', 0 if 'Rural') = "))
```

Property Area (Enter 2 if 'Urban', 1 if 'Semi-Urban', 0 if 'Rural') = 2

```
In [29]: i6 = int(input("Married (Enter 1 if 'Yes', 0 if 'No') = "))
```

Married (Enter 1 if 'Yes', 0 if 'No') = 1

```
In [30]: i7 = int(input("Gender (Enter 1 if 'Male', 0 if 'Female') = "))
```

Gender (Enter 1 if 'Male', 0 if 'Female') = 1





```
In [31]: i8 = int(input("Number of Dependents (Enter 0 if 0 Dependents, 1 if 1 Dependent, 2 if 2 Dependents, 3 if 3 or  
Number of Dependents (Enter 0 if 0 Dependents, 1 if 1 Dependent, 2 if 2 Dependents, 3 if 3 or more Dependents) = 0  
In [32]: i9 = int(input("Wether you are self Employed or not? (Enter 1 if 'Yes', 0 if 'No')"))  
Wether you are self Employed or not? (Enter 1 if 'Yes', 0 if 'No')0  
In [33]: i10 = int(input("Education (Enter 1 if 'Graduate', 0 otherwise) = "))  
Education (Enter 1 if 'Graduate', 0 otherwise) = 0  
In [34]: i11 = int(input("Credit History (Enter 1 if no pending loans, 0 otherwise) = "))  
Credit History (Enter 1 if no pending loans, 0 otherwise) = 1
```



3. The output of the interface looks like :-



```
In [38]: result = grid.predict(df_test)  
if result[0]==1:  
    display(Image(url= "Yes.jpg", width=400, height=400))  
else:  
    display(Image(url= "No.jfif", width=400, height=400))
```



User Manual

1. Scope and Purpose

This Product is a software that helps in deciding whether Loan should be provided to a particular individual not based on the data of the individual.

2. Stepwise Procedure

i) Download the Data file (train_dataset.csv) , Jupyter notebook file (.ipynb file) and 2 images (Yes.jpg and No.jpg) . Save all of them in the same directory as shown:-

Files	Running	Clusters
Select items to perform actions on them.		
Upload New ↻		
0 / Desktop / IITB Academics / 5th Semester / Theory Courses / ME 781 / Course Project		
Name Last Modified File size		
.. seconds ago		
Code 10 days ago		
Unit Testing 15 minutes ago		
User Interface Screenshots 6 hours ago		
ME781_Course_Project.ipynb Running 16 minutes ago 160 kB		
Graph.png 3 hours ago 18.2 kB		
ME781 Project.pdf 2 hours ago 296 kB		
No.jpg 17 minutes ago 158 kB		
train_dataset.csv 10 days ago 38 kB		
Yes.jpg 20 hours ago 22 kB		

ii) No open the ipynb file using Jupyter Notebook and start running the cells until you reach the cell Shown below:-

```
In [*]: i1 = int(input("Applicant Income = "))
```

Applicant Income =

iii) Now from this cell onwards you need to Enter the details in the form asked. Once you have completed entering the data, the cells will look like:-

```

In [23]: i1 = int(input("Applicant Income = "))
Applicant Income = 120

In [24]: i2 = int(input("Co-Applicant Income = "))
Co-Applicant Income = 0

In [25]: i3 = int(input("Loan Amount = "))
Loan Amount = 150

In [26]: i4 = int(input("Loan Term = "))
Loan Term = 360

In [27]: i5 = int(input("Property Area (Enter 2 if 'Urban', 1 if 'Semi-Urban', 0 if 'Rural') = "))
Property Area (Enter 2 if 'Urban', 1 if 'Semi-Urban', 0 if 'Rural') = 0

In [28]: i6 = int(input("Married (Enter 1 if 'Yes', 0 if 'No') = "))
Married (Enter 1 if 'Yes', 0 if 'No') = 1

In [29]: i7 = int(input("Gender (Enter 1 if 'Male', 0 if 'Female') = "))
Gender (Enter 1 if 'Male', 0 if 'Female') = 1

```

iv) After entering all the data you can run the remaining 2 cells and the result will show up as “Approved” if the loan is Approved or “Not Approved” if loan is not approved.



v) Now once done, to check for another data you should do :-
Cell → All Output → Clear

