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**Prizes** : Knowledge and Learning

**Start Date** : March 14, 2016, 1 p.m.

**End Date** : May 14, 2016, noon

**Mode** : Online

## Problem Statement

About Company





(/contest/practice-  
problem-  
loan-  
prediction-  
2/lb)



Dream Housing Finance company deals in all home loans. They have presence across all urban, semi urban and rural areas. Customer first apply for home loan after that company validates the customer eligibility for loan.

## Problem

Company wants to automate the loan eligibility process (real time) based on customer detail provided while filling online application form. These details are Gender, Marital Status, Education, Number of Dependents, Income, Loan Amount, Credit History and others. To automate this process, they have given a problem to identify the customers segments, those are eligible for loan amount so that they can specifically target these customers. Here they have provided a partial data set.

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## Data Set

Variable	Description
Loan_ID	Unique Loan ID
Gender	Male/ Female
Married	Applicant married (Y/N)
Dependents	Number of dependents
Education	Applicant Education (Graduate/ Under Graduate)
Self_Employed	Self employed (Y/N)
ApplicantIncome	Applicant income
CoapplicantIncome	Coapplicant income

<b>LoanAmount</b>	Loan amount in thousands
<b>Loan_Amount_Term</b>	Term of loan in months
<b>Credit_History</b>	credit history meets guidelines
<b>Property_Area</b>	Urban/ Semi Urban/ Rural
<b>Loan_Status</b>	Loan approved (Y/N)

📄 Test File (/contest/practice-problem-loan-prediction-2/media/test\_file/test\_Y3wMUE5.csv)

📄 Train File (/contest/practice-problem-loan-prediction-2/media/train\_file/train\_u6lujuX.csv)

📄 Sample Submissions (/contest/practice-problem-loan-prediction-2/media/sample\_submission/Sample\_Submission\_ZAuTI8O.csv)

## Solution Checker

**Code File \***

No file chosen

**Solution File\***  
(.csv or .zip file)

No file chosen

**Solution Description (max : 180 chars)\***

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# Discussions

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About the Loan\_prediction category (<http://discuss.analyticsvidhya.com/t/about-the-loan-prediction-category>)

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Leaderboard scoring - clarification needed  
(<http://discuss.analyticsvidhya.com/t/leaderboard-scoring-clarification-needed>)

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Can you access leaderboard for Loan prediction?  
(<http://discuss.analyticsvidhya.com/t/can-you-access-leaderboard-for-loan-prediction>)

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Solution to Loan Prediction Problem (<http://discuss.analyticsvidhya.com/t/solution-to-loan-prediction-problem>)

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How to impute categorical missing values? (<http://discuss.analyticsvidhya.com/t/how-to-impute-categorical-missing-values>)

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Loan Prediction, Reveal Your Approach (<http://discuss.analyticsvidhya.com/t/loan-prediction-reveal-your-approach>)

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What does the Error : factor Loan ID has new level mean  
(<http://discuss.analyticsvidhya.com/t/what-does-the-error-factor-loan-id-has-new-level-mean>)

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Comparing Models Performance (<http://discuss.analyticsvidhya.com/t/comparing-models-performance>)

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Steps after Imputation (<http://discuss.analyticsvidhya.com/t/steps-after-imputation>)

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Two different results on confusion matrix using random Forest on loan prediction data  
(<http://discuss.analyticsvidhya.com/t/two-different-results-on-confusion-matrix-using-random-forest-on-loan-prediction-data>)

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When I submit answer my score didn't show (<http://discuss.analyticsvidhya.com/t/when-i>)

[submit-answer-my-score-didnt-show\)](#)

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[How to impute missing values for a variable like Gender? \(http://discuss.analyticsvidhya.com/t/how-to-impute-missing-values-for-a-variable-like-gender\)](#)

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[Practice Problem. Loan Prediction \(http://discuss.analyticsvidhya.com/t/practice-problem-loan-prediction\)](#)

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[AV Practice Problem Loan Prediction \(http://discuss.analyticsvidhya.com/t/av-practice-problem-loan-prediction\)](#)

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[Help with submission format because I receive a 0.0 score \(http://discuss.analyticsvidhya.com/t/help-with-submission-format-because-i-receive-a-0-0-score\)](#)

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[Loan-prediction Practice Problem : How to improve the model? \(http://discuss.analyticsvidhya.com/t/loan-prediction-practice-problem-how-to-improve-the-model\)](#)

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## ABOUT US

For those of you, who are wondering what is “Analytics Vidhya”, “Analytics” can be defined as the science of extracting insights from raw data. The spectrum of analytics starts from capturing data and evolves into using insights / trends from this data to make informed decisions.

## Latest Posts

3 Compelling reasons why you must compete in Data Hackathon 3.x

KUNAL JAIN



(<http://www.analyticsvidhya.com/blog/2015/09/compelling-reasons-compete-data-hackathon/>)



Learn to use Forward Selection Techniques for Ensemble Modeling

TAVISH SRIVASTAVA

(<http://www.analyticsvidhya.com/blog/2015/09/selection-techniques-ensemble-modelling/>)

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