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problem-loan-prediction-iii/my-
submissions)/practice-
problem-loan-prediction-iii/lb)

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Loan Prediction
Practice Problem

Registered

Starts at	Wed May 25 2016 20:31:00 GMT+0200 (Central European Summer Time)
Closes on	Mon Dec 31 2018 19:29:00 GMT+0100 (Central European Standard Time)
Mode	Online
Fee	Free
# Participants	28596
Prizes	Knowledge and Learning

Contest ends in 170days: 4hours: 9minutes: 24seconds

About Practice Problem: Loan Prediction III

Nothing ever becomes real till it is experienced.

-John Keats

While we don't know the context in which John Keats mentioned this, we are sure about its implication in data science. While you would have enjoyed and gained exposure to real world problems in this challenge, here is another opportunity to get your hand dirty with this practice problem powered by Analytics Vidhya.

This hackathon aims to provide a professional setup to showcase your skills and compete with their peers, learn new things and achieve a steep learning curve.

Data Science Resources

- **You can access the free course on Loan prediction practice problem using Python here. (https://trainings.analyticsvidhya.com/courses/course-v1:AnalyticsVidhya+LP101+2018_T1/about? utm_source=practice_problem_Loan_Prediction-III&utm_medium=Datahack) It covers various analysis and modeling techniques related to this problem.**
- **Are you a beginner? If yes, you can check out our latest 'Intro to Data Science' (https://trainings.analyticsvidhya.com/courses/course-v1:AnalyticsVidhya+DS101+2018T2/about?utm_source=practice_problem_Loan_Prediction-III&utm_medium=Datahack) course to kickstart your journey in data science.**

Rules

- One person cannot participate with more than one user accounts.
- You are free to use any tool and machine you have rightful access to.
- You can use any programming language or statistical software.
- You are free to use solution checker as many times as you want.

Registration Fee

Free

Problem Statement

About Company
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.

Data

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

Note:

1. Evaluation Metric is accuracy i.e. percentage of loan approval you correctly predict.
2. You are expected to upload the solution in the format of "sample_submission.csv"

⬇Test File (/contest/practice-problem-loan-prediction-iii/download/test-file)
⬇Train File (/contest/practice-problem-loan-prediction-iii/download/train-file)
⬇Sample Submissions (/contest/practice-problem-loan-prediction-iii/download/sample-submission)

Solution Checker

Code File	Choose file No file chosen
Solution File* (.csv only)	Choose file No file chosen

Solution Description (max : 180 chars)*

Solution Description (for your interest)

Do you want to show your code on leaderboard?*

Yes ◯ No ◯

Add Solution

Discussions

About the Loan_prediction category (https://discuss.analyticsvidhya.com/t/about-the-loan-prediction-category)

Source of Loan Prediction Data (https://discuss.analyticsvidhya.com/t/source-of-loan-prediction-data)

Getting 0.0 score on file submission (https://discuss.analyticsvidhya.com/t/getting-0-0-score-on-file-submission)

Difference between train and test file (https://discuss.analyticsvidhya.com/t/difference-between-train-and-test-file)

How to check accuracy of Logistic Regression model (https://discuss.analyticsvidhya.com/t/how-to-check-accuracy-of-logistic-regression-model)

How to apply Gradient Boosting technique on Loan Prediction hack? (https://discuss.analyticsvidhya.com/t/how-to-apply-gradient-boosting-technique-on-loan-prediction-hack)

How to map values using 3 columns? (https://discuss.analyticsvidhya.com/t/how-to-map-values-using-3-columns)

ValueError:could not convert string to float: 'Rural' (https://discuss.analyticsvidhya.com/t/valueerror-could-not-convert-string-to-float-rural)

Loan Prediction Problem Dataset (https://discuss.analyticsvidhya.com/t/loan-prediction-problem-dataset)

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

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

Unable to fill missing value (https://discuss.analyticsvidhya.com/t/unable-to-fill-missing-value)

Loan Prediction - Data Conversion Warning (https://discuss.analyticsvidhya.com/t/loan-prediction-data-conversion-warning)

Imputing Missing Values (https://discuss.analyticsvidhya.com/t/imputing-missing-values)

Please check with the test data set, all IDs are not available (https://discuss.analyticsvidhya.com/t/please-check-with-the-test-data-set-all-ids-are-not-available)

'unorderable types: str() >= float()' error in Logistic Regression (https://discuss.analyticsvidhya.com/t/unorderable-types-str-float-error-in-logistic-regression)

Getting "TypeError: '>' not supported between instances of 'str' and 'float'" (https://discuss.analyticsvidhya.com/t/getting-typeerror-not-supported-between-instances-of-str-and-float)

How can I use "CoApplicaantIncome" as a feature? (https://discuss.analyticsvidhya.com/t/how-can-i-use-coapplicaantincome-as-a-feature)

Should target be missing in the test file? (https://discuss.analyticsvidhya.com/t/should-target-be-missing-in-the-test-file)

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

Meaning of the statement : {0:.3%}".format(accuracy) in[print "Accuracy : %s" % "{0:.3%}".format(accuracy)] (https://discuss.analyticsvidhya.com/t/meaning-of-the-statement-0-3-format-accuracy-in-print-accuracy-s-0-3-format-accuracy)

Labelencoder error (https://discuss.analyticsvidhya.com/t/labelencoder-error)

Loan Prediction III : Wanted to know about Final solution option (https://discuss.analyticsvidhya.com/t/loan-prediction-iii-wanted-to-know-about-final-solution-option)

Confusion in replacing aggfunc by np.median() or np.mean() while using pivot table for 'LoanAmount' (https://discuss.analyticsvidhya.com/t/confusion-in-replacing-aggfunc-by-np-median-or-np-mean-while-using-pivot-table-for-loanamount)

I did not understand credit_history variable. Can any one help me with the explanation please? (https://discuss.analyticsvidhya.com/t/i-did-not-understand-credit-history-variable-can-any-one-help-me-with-the-explanation-please)

Loan_Prediction 3 : I dont understand the 'No of Dependent' Variable (https://discuss.analyticsvidhya.com/t/loan-prediction-3-i-dont-understand-the-no-of-dependent-variable)

Need Help Improving Accuracy of Model (https://discuss.analyticsvidhya.com/t/need-help-improving-accuracy-of-model)

How to impute missing values for a variable like Gender? (https://discuss.analyticsvidhya.com/t/how-to-impute-missing-values-for-a-variable-like-gender)

ValueError: Unknown label type: 'unknown' for LogisticsRegression Model (https://discuss.analyticsvidhya.com/t/valueerror-unknown-label-type-unknown-for-logisticsregression-model)

Error in Final Submission of Code and CSV file (https://discuss.analyticsvidhya.com/t/error-in-final-submission-of-code-and-csv-file)

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