



Instant Home Loan Classifier

Lakshmi Chinta

GOALS



- ❖ Classify loan eligibility instantly
- ❖ Use supervised learning to analyze available data to classify one's eligibility for a home loan (Yes | No)



DATA SOURCES - OVERVIEW



- ❖ Dataset of Dream Housing Company
- ❖ Data was cleaned and preprocessed
- ❖ 614 records; 13 attributes
 - Loan_ID, Gender, Married, Education, Self_Employed, Loan_Amount_Term, [LoanAmount](#), [ApplicantIncome](#), [CoApplicantIncome](#), [Credit_History](#), [Property_Area](#), [Dependents](#), Loan_Status
 - 422 approved, 192 rejected

TOOLKIT



METHODOLOGY



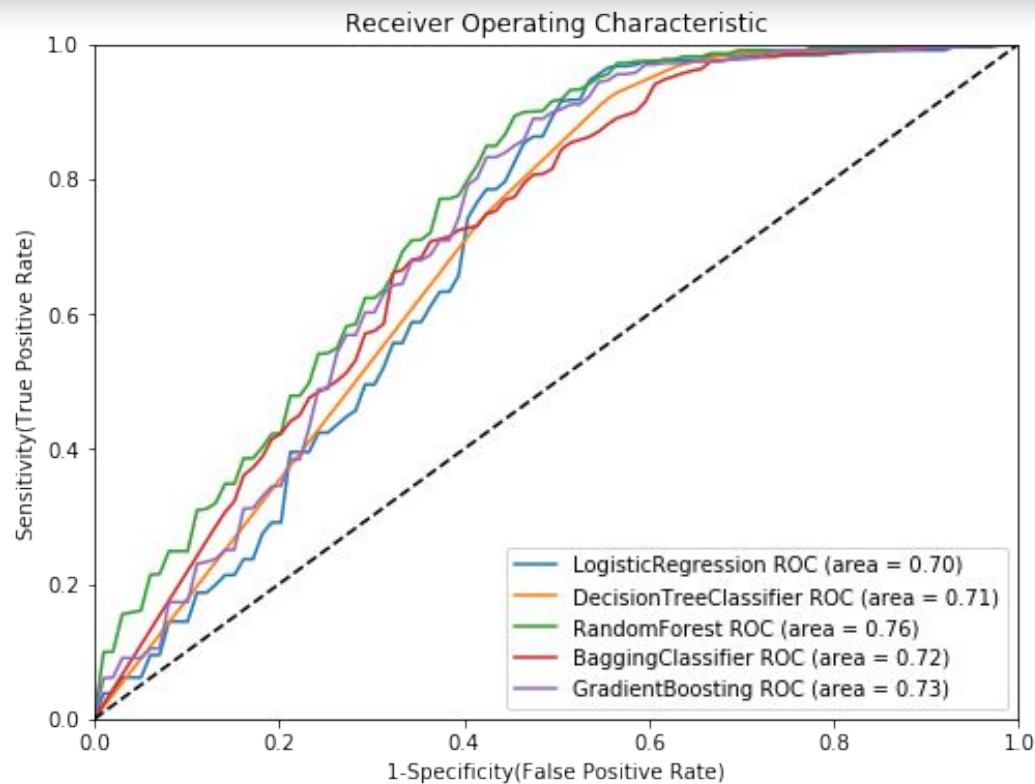
- ❖ Build different models
- ❖ Evaluate the performance of models
- ❖ Pick a winner
- ❖ Deploy the model , model based UI on AWS

MODELING

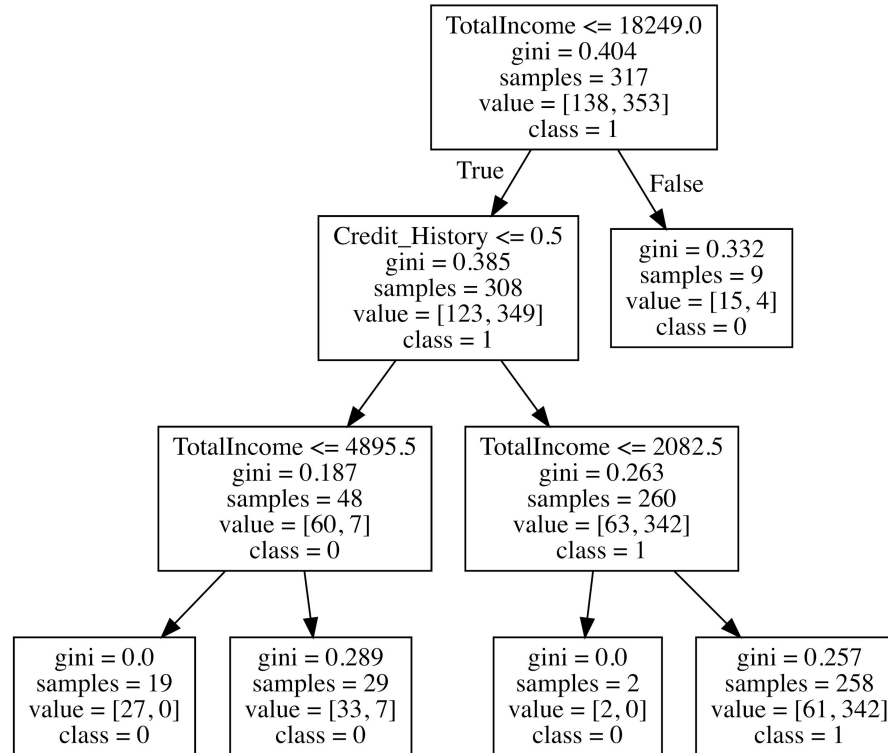


- ❖ Logistic Regression Classifier
- ❖ Decision Tree Classifier
- ❖ Random Forest Classifier
- ❖ Bagging Classifier
- ❖ Gradient Boosting Classifier

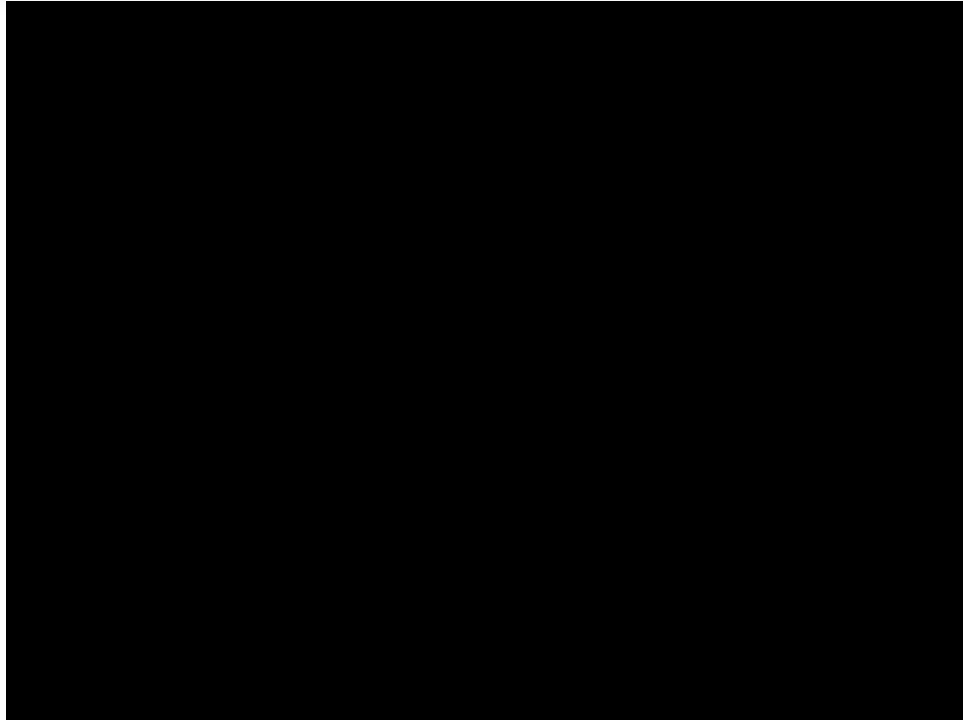
ROC CURVES



Decision Tree From Random Forest



Demo Video





126,124...

Loans approved to date... and counting!



Questions ?

