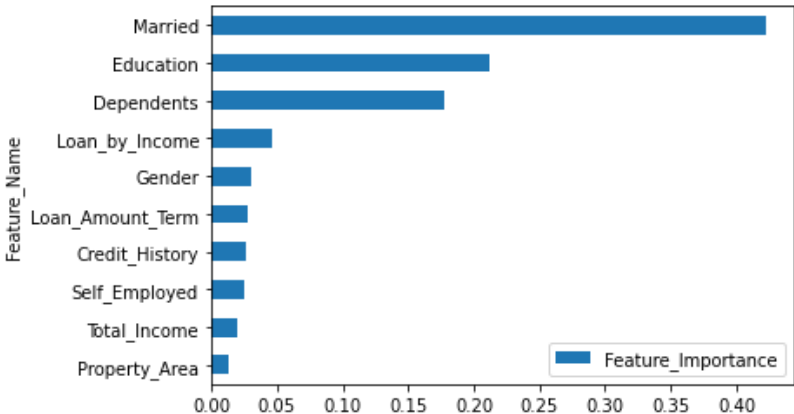


Predict Loan Eligibility for Dream Housing Finance company

Business Objective	<ul style="list-style-type: none">Create a real-time process that helps customers instantly know their loan eligibility status after they have filled the application form.
Solution	<ul style="list-style-type: none">Build and Deploy a Machine Learning Model that predicts Eligible Customers for the Home Loan after the form is filled by the customer
Approach	<ul style="list-style-type: none">Business UnderstandingData Understanding<ul style="list-style-type: none">Perform EDA to identify features that help predict Eligible Customers for Home loanData preparation<ul style="list-style-type: none">Pre process data for Modelling, Create Training and Validation DataModelling<ul style="list-style-type: none">Create a Machine Learning Model that predicts Loan EligibilityEvaluate<ul style="list-style-type: none">Use Accuracy Metric to evaluate the model performanceDeploy
Who	<ul style="list-style-type: none">Company Marketing Department
Where	<ul style="list-style-type: none">Deploy the model on server<ul style="list-style-type: none">Take input from the Customer Application form and provide Eligibility status post submission
Outcomes	<ul style="list-style-type: none">Business Outcome<ul style="list-style-type: none">Reduced Loan Validation Process from 10 days by making it real time (< 1 minute)Model Outcome<ul style="list-style-type: none">Predicted Eligible Target Customers with 81% Accuracy using a Decision Tree Model



Model Performance

- Train Accuracy: 86.4%
- Validation Accuracy: 81.3%



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