

Note: This presentation was made as a quick pitch presentation to the client, with more emphasis on value projection, less on technicalities

Sparkify User Churn Prediction



Business Problem & Objective

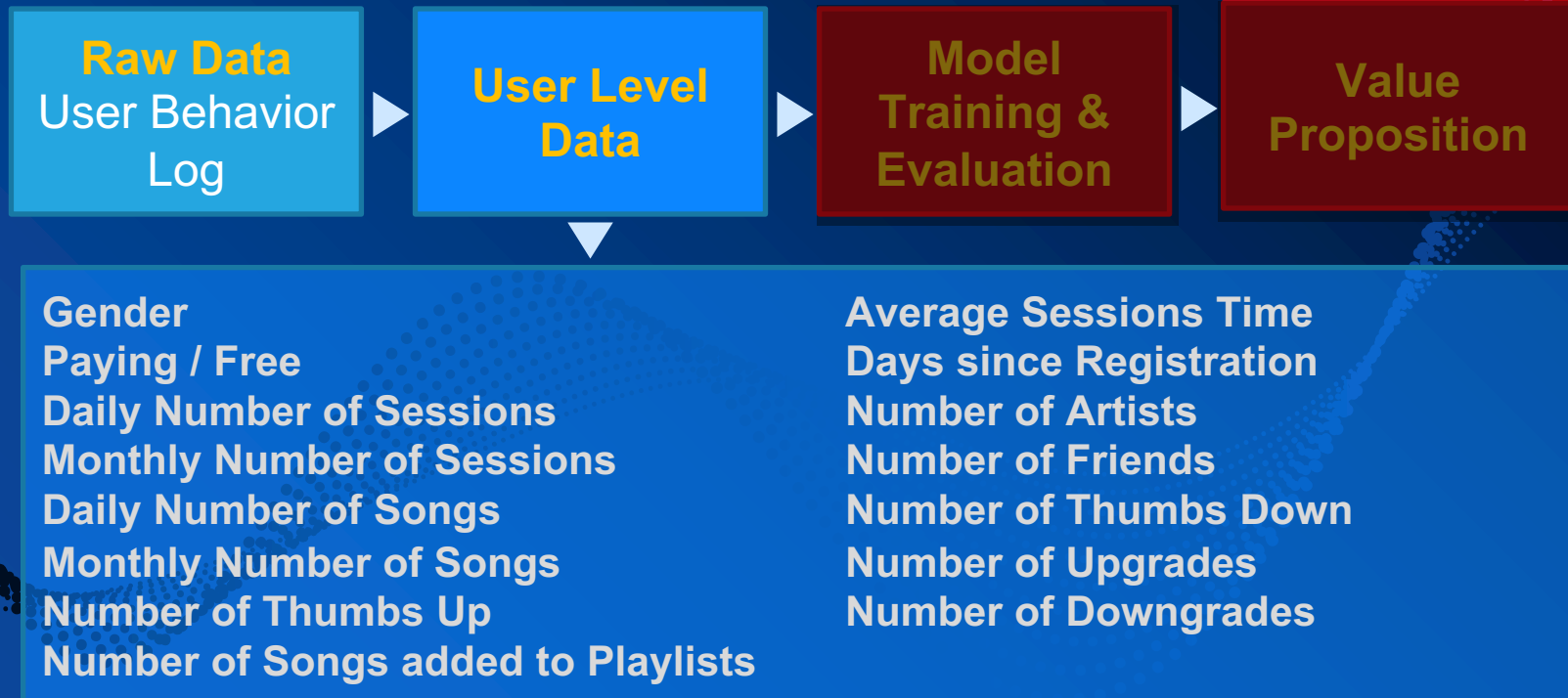
Problem

Potential Revenue is lost from Users who cancel their subscription (**churn**). In particular, we have no insight into who these churn users might be, thus preventing follow-up retention strategies.

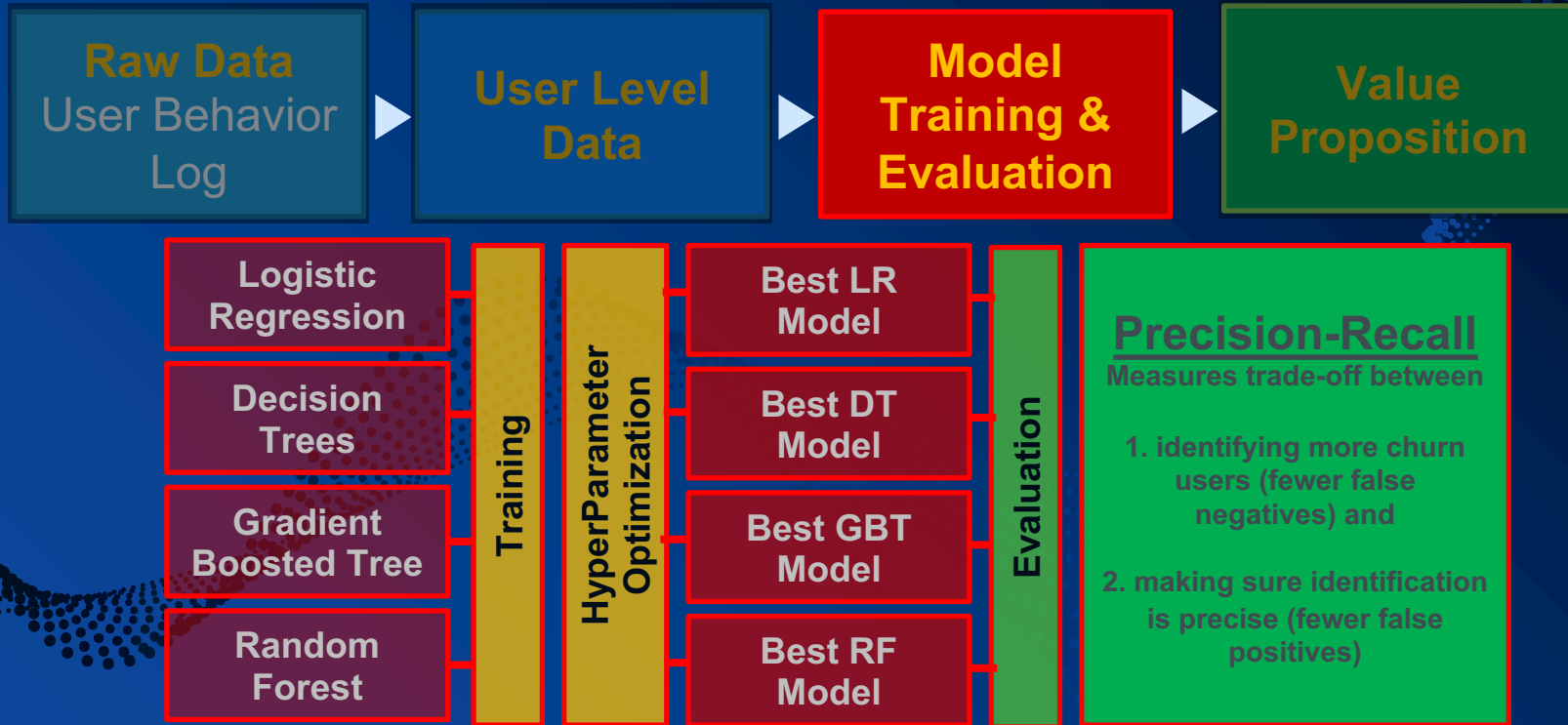
Objective

To identify potential churn users using individual and usage data, which will subsequently inform targeted user retention strategies

Approach : Feature Engineering



Approach : Modelling & Evaluation



Results : Value Proposition



Actual Non-Churn

True Neg
316

False Pos
33

Actual Churn

False Neg
9

True Pos
90

Predict Non-Churn

Predict Churn

Value Proposition

Actual Non-Churn

True Neg
316

False Pos
33

Actual Churn

False Neg
9

True Pos
90

Predict Non-Churn

Predict Churn

Out of 100 Churn users, we can identify 90 beforehand.

Given baseline assumptions*, and 100% retention from identification, revenues will increase up to **26%**.

Assuming proportion of users by paying/free and churn/no-churn are as in the dataset, and a 1:3 revenue ratio for free:paying users (which turns out to not be a crucial assumption)



End of Presentation