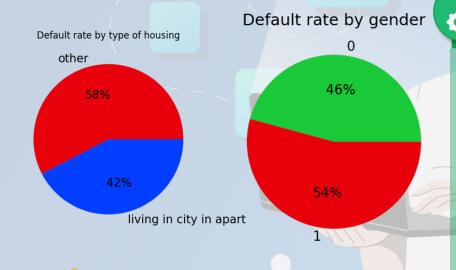


loan_duration = REPORT_DT - X_9







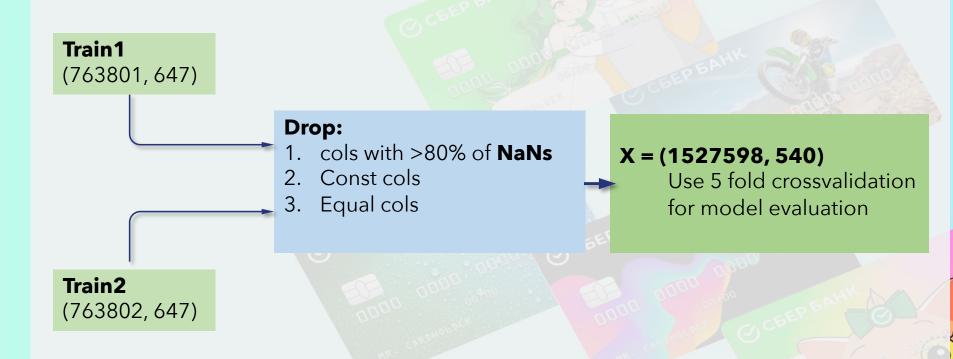
The most important features ones are: **x21** - which demonstrates the goal of the particular loan in this case category of 'Individual building' is the riskiest, with a huge default rate of **8.6%** compared to ~4.5% of the mean default rate.

x_628- which shows which type of card the borrower has. In this case, the riskiest category is people who a not a cardholder of Sber with a default rate ~5% and obviously the least risky category is Sber employees.
x_625 - which shows whether the borrower leave in the city also shows a quite significant

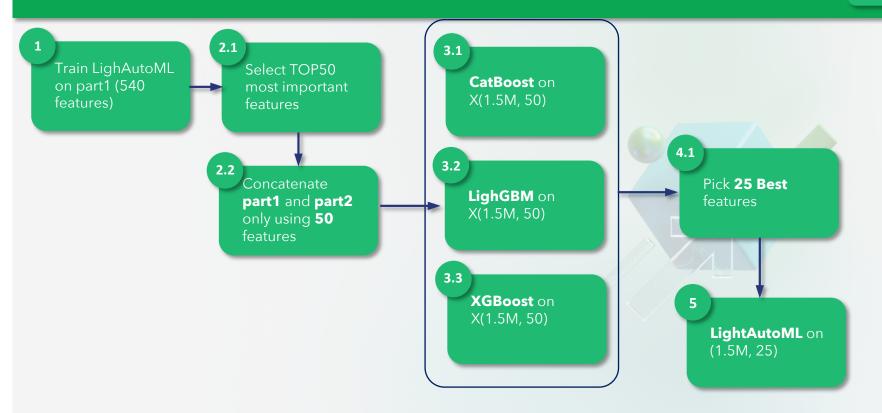
leave in the city also shows a quite significant difference of **4.94%** for borrowers who live somewhere else compare to **3.63%** for borrowers living in the city.



Initial Data Preparation



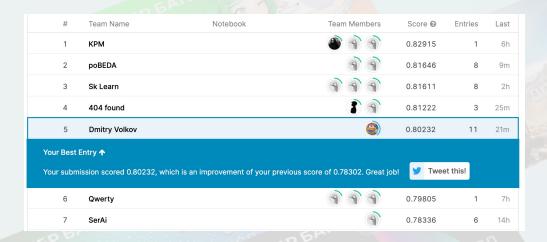






Final results





baseline

1st checkpoint

2nd checkpoint

Final model

*

Yandex CatBoost (48 features)

LogReg (55 features)

LightGBM (25 features)

 $0.763 \rightarrow 0.783 \rightarrow 0.802 \rightarrow 0.791$

