Predicting ratio of final price to reserve price in procurement contracts in Russia

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Procurement Data

- Open procurement data from unified information system for 2013 - now: lies FTP server in zipped xml files, VPN needs to be used

- Very detailed data (more than 500 variables), but needs a lot of processing

- Will take data only for electronic auctions since outcomes are easier evaluated

- **Due to time constraint extracted only for 2021 year which is a big limitation**

Why predict ratio of final to reserve price?

- **Notification → Contract**
- **Reserve price:** initial price in notifications
- **Final price:** final price for which contract was realised

- Ideally, I want to see at least 1.0, less is good, more is bad
- Bad idea to predict just price because all products in procurement are different and it hard to distinguish precisely which product it is even if there is a code for it

Now Let's look into Jupyter notebook!