# train.csv and test.csv

price\_doc: sale price (this is the target variable)

id: transaction id

timestamp: date of transaction

full\_sq: total area in square meters, including loggias, balconies and other non-residential areas

life\_sq: living area in square meters, excluding loggias, balconies and other non-residential areas

floor: for apartments, floor of the building

max\_floor: number of floors in the building

material: wall material

build\_year: year built

num\_room: number of living rooms

kitch\_sq: kitchen area

state: apartment condition

product\_type: owner-occupier purchase or investment

sub\_area: name of the district

The dataset also includes a collection of features about each property's surrounding neighbourhood, and some features that are constant across each sub area (known as a Raion). Most of the feature names are self explanatory, with the following notes.

full\_all: subarea population

male\_f, female\_f: subarea population by gender

young\_\*: population younger than working age

work\_\*: working-age population

ekder\_\*: retirement-age population

n\_m\_{all|male|female}: population between n and m years old

build\_count\_\*: buildings in the subarea by construction type or year

x\_count\_500: the number of x within 500m of the property

x\_part\_500: the share of x within 500m of the property

\_sqm\_: square meters

cafe\_count\_d\_price\_p: number of cafes within d meters of the property that have an average bill under p RUB

trc\_: shopping malls

prom\_: industrial zones

green\_: green zones

metro\_: subway

\_avto\_: distances by car

mkad\_: Moscow Circle Auto Road

ttk\_: Third Transport Ring

sadovoe\_: Garden Ring

bulvar\_ring\_: Boulevard Ring

kremlin\_: City center

zd\_vokzaly\_: Train station

oil\_chemistry\_: Dirty industry

ts\_: Power plant

# macro.csv

A set of macroeconomic indicators, one for each date.

timestamp: Transaction timestamp

oil\_urals: Crude Oil Urals ($/bbl)

gdp\_quart: GDP

gdp\_quart\_growth: Real GDP growth

cpi: Inflation - Consumer Price Index Growth

ppi: Inflation - Producer Price index Growth

gdp\_deflator: Inflation - GDP deflator

balance\_trade: Trade surplus

balance\_trade\_growth: Trade balance (as a percentage of previous year)

usdrub: Ruble/USD exchange rate

eurrub: Ruble/EUR exchange rate

brent: London Brent ($/bbl)

net\_capital\_export: Net import / export of capital

gdp\_annual: GDP at current prices

gdp\_annual\_growth: GDP growth (in real terms)

average\_provision\_of\_build\_contract: Provision by orders in Russia (for the developer)

average\_provision\_of\_build\_contract\_moscow: Provision by orders in Moscow (for the developer)

rts: Index RTS / return

micex: MICEX index / return

micex\_rgbi\_tr: MICEX index for government bonds (MICEX RGBI TR) / yield

micex\_cbi\_tr: MICEX Index corporate bonds (MICEX CBI TR) / yield

deposits\_value: Volume of household deposits

deposits\_growth: Volume growth of population's deposits

deposits\_rate: Average interest rate on deposits

mortgage\_value: Volume of mortgage loans

mortgage\_growth: Growth of mortgage lending

mortgage\_rate: Weighted average rate of mortgage loans

grp: GRP of the subject of Russian Federation where Apartment is located

grp\_growth: Growth of gross regional product of the subject of the Russian Federation where Apartment is located

income\_per\_cap: Average income per capita

real\_dispos\_income\_per\_cap\_growth: Growth in real disposable income of Population

salary: Average monthly salary

salary\_growth: Growth of nominal wages

fixed\_basket: Cost of a fixed basket of consumer goods and services for inter-regional comparisons of purchasing power

retail\_trade\_turnover: Retail trade turnover

retail\_trade\_turnover\_per\_cap: Retail trade turnover per capita

retail\_trade\_turnover\_growth: Retail turnover (in comparable prices in% to corresponding period of previous year)

labor\_force: Size of labor force

unemployment: Unemployment rate

employment: Employment rate

invest\_fixed\_capital\_per\_cap: Investments in fixed capital per capita

invest\_fixed\_assets: Absolute volume of investments in fixed assets

profitable\_enterpr\_share: Share of profitable enterprises

unprofitable\_enterpr\_share: The share of unprofitable enterprises

share\_own\_revenues: The share of own revenues in the total consolidated budget revenues

overdue\_wages\_per\_cap: Overdue wages per person

fin\_res\_per\_cap: The financial results of companies per capita

marriages\_per\_1000\_cap: Number of marriages per 1,000 people

divorce\_rate: The divorce rate / growth rate

construction\_value: Volume of construction work performed (million rubles)

invest\_fixed\_assets\_phys: The index of physical volume of investment in fixed assets (in comparable prices in% to the corresponding month of Previous year)

pop\_natural\_increase: Rate of natural increase / decrease in Population (1,000 persons)

pop\_migration: Migration increase (decrease) of population

pop\_total\_inc: Total population growth

childbirth: Childbirth

mortality: Mortality

housing\_fund\_sqm: Housing Fund (sqm)

lodging\_sqm\_per\_cap: Lodging (sqm / pax)

water\_pipes\_share: Plumbing availability (pax)

baths\_share: Bath availability (pax)

sewerage\_share: Canalization availability

gas\_share: Gas (mains, liquefied) availability

hot\_water\_share: Hot water availability

electric\_stove\_share: Electric heating for the floor

heating\_share: Heating availability

old\_house\_share: Proportion of old and dilapidated housing, percent

average\_life\_exp: Average life expectancy

infant\_mortarity\_per\_1000\_cap: Infant mortality rate (per 1,000 children aged up to one year)

perinatal\_mort\_per\_1000\_cap: Perinatal mortality rate (per 1,000 live births)

incidence\_population: Overall incidence of the total population

rent\_price\_4+room\_bus: rent price for 4-room apartment, business class

rent\_price\_3room\_bus: rent price for 3-room apartment, business class

rent\_price\_2room\_bus: rent price for 2-room apartment, business class

rent\_price\_1room\_bus: rent price for 1-room apartment, business class

rent\_price\_3room\_eco: rent price for 3-room apartment, econom class

rent\_price\_2room\_eco: rent price for 2-room apartment, econom class

rent\_price\_1room\_eco: rent price for 1-room apartment, econom class

load\_of\_teachers\_preschool\_per\_teacher: Load of teachers of preschool educational institutions (number of children per 100 teachers);

child\_on\_acc\_pre\_school: Number of children waiting for the determination to pre-school educational institutions, for capacity of 100

load\_of\_teachers\_school\_per\_teacher: Load on teachers in high school (number of pupils in hugh school for 100 teachers)

students\_state\_oneshift: Proportion of pupils in high schools with one shift, of the total number of pupils in high schools

modern\_education\_share: Share of state (municipal) educational organizations, corresponding to modern requirements of education in the total number of high schools;

old\_education\_build\_share: The share of state (municipal) educational organizations, buildings are in disrepair and in need of major repairs of the total number.

provision\_doctors: Provision (relative number) of medical doctors in area

provision\_nurse: Provision of nursing staff

load\_on\_doctors: The load on doctors (number of visits per physician)

power\_clinics: Capacity of outpatient clinics

hospital\_beds\_available\_per\_cap: Availability of hospital beds per 100 000 persons

hospital\_bed\_occupancy\_per\_year: Average occupancy rate of the hospital beds during a year

provision\_retail\_space\_sqm: Retail space

provision\_retail\_space\_modern\_sqm: Provision of population with retail space of modern formats, square meter

retail\_trade\_turnover\_per\_cap: Retail trade turnover per capita

turnover\_catering\_per\_cap: Turnover of catering industry per person

theaters\_viewers\_per\_1000\_cap: Number of theaters viewers per 1000 population

seats\_theather\_rfmin\_per\_100000\_cap: Total number of seats in Auditorium of the Ministry of Culture Russian theaters per 100,000 population

museum\_visitis\_per\_100\_cap: Number of visits to museums per 1000 of population

bandwidth\_sports: Capacity of sports facilities

population\_reg\_sports\_share: Proportion of population regularly doing sports

students\_reg\_sports\_share: Proportion of pupils and students regularly doing sports in the total number

apartment\_build: City residential apartment construction

apartment\_fund\_sqm: City residential apartment fund