

02_Exploration.ipynb

September 23, 2021

```
[ ]: # Importations
import sys
sys.path.append('..')

import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns

from preprocessing import preprocessor as prep
from preprocessing import preprocessor_no_scaler as prep_no_scl
from preprocessing import get_preprocessed_set_column_names as get_col_names
from styles import *
```

```
[ ]: # Initialisation
df = pd.read_csv('../02_data/application_train.csv')
#test = pd.read_csv('../02_data/application_test.csv')

id_error_msg = lambda x: '`SK_ID_CURR` is not unic for {} set!'.format(x)
assert len(df.SK_ID_CURR.unique()) == df.shape[0], id_error_msg('train')
#assert len(test.SK_ID_CURR.unique()) == test.shape[0], id_error_msg('test')
df.set_index('SK_ID_CURR', inplace=True)
#test.set_index('SK_ID_CURR', inplace=True)

df_trans = pd.DataFrame(prep_no_scl.fit_transform(df.iloc[:, 1:]),
                        columns=get_col_names(prep_no_scl))
df_trans_scl = pd.DataFrame(prep.fit_transform(df.iloc[:, 1:]),
                           columns=get_col_names(prep))
```

```
[ ]: df.head()
```

```
[ ]:
      TARGET  NAME_CONTRACT_TYPE  CODE_GENDER  FLAG_OWN_CAR  \
SK_ID_CURR
100002      1      Cash loans      M      N
100003      0      Cash loans      F      N
100004      0  Revolving loans      M      Y
100006      0      Cash loans      F      N
```

100007	0	Cash loans	M	N
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	FLAG_OWN_REALTY	CNT_CHILDREN	AMT_INCOME_TOTAL	AMT_CREDIT \
SK_ID_CURR				
100002	Y	0	202500.0	406597.5
100003	N	0	270000.0	1293502.5
100004	Y	0	67500.0	135000.0
100006	Y	0	135000.0	312682.5
100007	Y	0	121500.0	513000.0

	AMT_ANNUITY	AMT_GOODS_PRICE	... FLAG_DOCUMENT_18 \
SK_ID_CURR			...
100002	24700.5	351000.0	0
100003	35698.5	1129500.0	0
100004	6750.0	135000.0	0
100006	29686.5	297000.0	0
100007	21865.5	513000.0	0

	FLAG_DOCUMENT_19	FLAG_DOCUMENT_20	FLAG_DOCUMENT_21 \
SK_ID_CURR			
100002	0	0	0
100003	0	0	0
100004	0	0	0
100006	0	0	0
100007	0	0	0

	AMT_REQ_CREDIT_BUREAU_HOUR	AMT_REQ_CREDIT_BUREAU_DAY \
SK_ID_CURR		
100002	0.0	0.0
100003	0.0	0.0
100004	0.0	0.0
100006	NaN	NaN
100007	0.0	0.0

	AMT_REQ_CREDIT_BUREAU_WEEK	AMT_REQ_CREDIT_BUREAU_MON \
SK_ID_CURR		
100002	0.0	0.0
100003	0.0	0.0
100004	0.0	0.0
100006	NaN	NaN
100007	0.0	0.0

	AMT_REQ_CREDIT_BUREAU_QRT	AMT_REQ_CREDIT_BUREAU_YEAR
SK_ID_CURR		
100002	0.0	1.0
100003	0.0	0.0
100004	0.0	0.0

100006	NaN	NaN
100007	0.0	0.0

[5 rows x 121 columns]

```
[ ]: df_trans
```

```
[ ]:
      CNT_CHILDREN  AMT_INCOME_TOTAL  AMT_CREDIT  AMT_ANNUITY  \
0                0.0          202500.0    406597.5    24700.5
1                0.0          270000.0   1293502.5    35698.5
2                0.0           67500.0    135000.0     6750.0
3                0.0          135000.0    312682.5    29686.5
4                0.0          121500.0    513000.0    21865.5
...              ...              ...          ...          ...
307506            0.0          157500.0    254700.0    27558.0
307507            0.0           72000.0    269550.0    12001.5
307508            0.0          153000.0    677664.0    29979.0
307509            0.0          171000.0    370107.0    20205.0
307510            0.0          157500.0    675000.0    49117.5
```

```
      AMT_GOODS_PRICE  REGION_POPULATION_RELATIVE  DAYS_BIRTH  \
0          351000.0                0.018801      -9461.0
1       1129500.0                0.003541     -16765.0
2       135000.0                0.010032     -19046.0
3       297000.0                0.008019     -19005.0
4       513000.0                0.028663     -19932.0
...              ...              ...          ...
307506       225000.0                0.032561      -9327.0
307507       225000.0                0.025164     -20775.0
307508       585000.0                0.005002     -14966.0
307509       319500.0                0.005313     -11961.0
307510       675000.0                0.046220     -16856.0
```

```
      DAYS_EMPLOYED  DAYS_REGISTRATION  DAYS_ID_PUBLISH  ...  \
0          -637.0          -3648.0          -2120.0  ...
1         -1188.0          -1186.0           -291.0  ...
2          -225.0          -4260.0          -2531.0  ...
3         -3039.0          -9833.0          -2437.0  ...
4         -3038.0          -4311.0          -3458.0  ...
...              ...              ...          ...
307506         -236.0          -8456.0          -1982.0  ...
307507      365243.0          -4388.0          -4090.0  ...
307508        -7921.0          -6737.0          -5150.0  ...
307509        -4786.0          -2562.0           -931.0  ...
307510        -1262.0          -5128.0          -410.0  ...
```

```
      HOUSETYPE_MODE_terraced_house  HOUSETYPE_MODE_unknown  \
```

0	0.0	0.0
1	0.0	0.0
2	0.0	1.0
3	0.0	1.0
4	0.0	1.0
...
307506	0.0	0.0
307507	0.0	0.0
307508	0.0	0.0
307509	0.0	0.0
307510	0.0	0.0

	WALLSMATERIAL_MODE_block	WALLSMATERIAL_MODE_mixed \
0	0.0	0.0
1	1.0	0.0
2	0.0	0.0
3	0.0	0.0
4	0.0	0.0
...
307506	0.0	0.0
307507	0.0	0.0
307508	0.0	0.0
307509	0.0	0.0
307510	0.0	0.0

	WALLSMATERIAL_MODE_monolithic	WALLSMATERIAL_MODE_others \
0	0.0	0.0
1	0.0	0.0
2	0.0	0.0
3	0.0	0.0
4	0.0	0.0
...
307506	0.0	0.0
307507	0.0	0.0
307508	0.0	0.0
307509	0.0	0.0
307510	0.0	0.0

	WALLSMATERIAL_MODE_panel	WALLSMATERIAL_MODE_stone_or_brick \
0	0.0	1.0
1	0.0	0.0
2	0.0	0.0
3	0.0	0.0
4	0.0	0.0
...
307506	0.0	1.0
307507	0.0	1.0

307508	1.0	0.0
307509	0.0	1.0
307510	1.0	0.0

	WALLSMATERIAL_MODE_unknown	WALLSMATERIAL_MODE_wooden
0	0.0	0.0
1	0.0	0.0
2	1.0	0.0
3	1.0	0.0
4	1.0	0.0
...
307506	0.0	0.0
307507	0.0	0.0
307508	0.0	0.0
307509	0.0	0.0
307510	0.0	0.0

[307511 rows x 237 columns]

```
[ ]: print(df.AMT_INCOME_TOTAL.describe())
      print(df.AMT_INCOME_TOTAL.isnull().sum())
```

```
count    3.075110e+05
mean     1.687979e+05
std      2.371231e+05
min      2.565000e+04
25%      1.125000e+05
50%      1.471500e+05
75%      2.025000e+05
max      1.170000e+08
Name: AMT_INCOME_TOTAL, dtype: float64
0
```

```
[ ]: print(df.AMT_CREDIT.describe())
      print(df.AMT_CREDIT.isnull().sum())
```

```
count    3.075110e+05
mean     5.990260e+05
std      4.024908e+05
min      4.500000e+04
25%      2.700000e+05
50%      5.135310e+05
75%      8.086500e+05
max      4.050000e+06
Name: AMT_CREDIT, dtype: float64
0
```

```
[ ]: print(df.AMT_ANNUIITY.describe())
print(df.AMT_ANNUIITY.isnull().sum())
```

```
count      307499.000000
mean        27108.573909
std         14493.737315
min          1615.500000
25%         16524.000000
50%         24903.000000
75%         34596.000000
max         258025.500000
Name: AMT_ANNUIITY, dtype: float64
12
```

```
[ ]: X_scl = df_trans_scl.values
print(X_scl.var(axis=0))
```

```
[1.44448088e-03 4.10927498e-06 1.00996288e-02 3.19501489e-03
 8.48302708e-03 3.66802619e-02 6.05143786e-02 1.35951792e-01
 2.03885872e-02 4.39879059e-02 6.11355051e-03 2.29732128e-03
 6.47786679e-02 6.31859256e-02 2.01618632e-02 2.16194300e-02
 4.98358438e-02 3.80757059e-02 4.74986938e-05 1.72097226e-04
 4.77553478e-05 2.27172798e-04 3.71097209e-02 3.80386548e-04
 1.31069304e-04 5.68391061e-04 1.00702485e-03 8.12703842e-06
 4.98729896e-03 5.77010424e-03 2.81925431e-03 1.79644362e-03
 4.29907715e-03 1.74179461e-03 8.45836615e-03 4.96996966e-03
 1.05104363e-02 8.37328879e-03 2.67736984e-03 2.71206042e-03
 6.08858393e-03 6.96404921e-04 2.16638728e-03 6.10675729e-03
 2.83740315e-03 1.84126502e-03 4.20914420e-03 1.86596163e-03
 9.96210329e-03 5.03373350e-03 1.14485254e-02 8.54947983e-03
 2.82489877e-03 2.91948267e-03 6.56080992e-03 7.03071235e-04
 2.36292280e-03 5.96613858e-03 4.80891258e-03 2.16096979e-03
 5.16802782e-03 2.05083894e-03 9.55041684e-03 5.07587637e-03
 1.11487664e-02 8.43558360e-03 3.73265071e-03 3.58437236e-03
 9.03809302e-03 6.68427666e-04 2.39275598e-03 8.59979408e-03
 8.61473666e-02 2.24434599e-01 2.12490867e-01 7.51314902e-03
 2.24923081e-01 3.20863601e+00 3.25190562e-06 1.47670791e-01
 1.59620688e-01 1.86311570e-03 2.02068065e-01 5.35027726e-02
 1.49148277e-02 4.81914328e-02 3.90055776e-02 7.20618246e-02
 1.77344708e-01 1.47314715e-01 4.22731233e-05 2.05890179e-01
 8.12912954e-05 1.48864461e-02 8.03016355e-02 1.91826244e-04
 7.47539054e-02 3.88061837e-03 2.27628952e-05 3.89675100e-03
 6.50379008e-06 3.51265098e-03 2.92785740e-03 1.20824942e-03
 9.82953296e-03 2.66586022e-04 8.06369699e-03 5.94746518e-04
 5.07041574e-04 3.34835178e-04 1.05111406e-02 1.13514961e-01
 8.80492652e-04 2.80822867e-03 5.72276137e-03 3.56071892e-02
 1.55021560e-01 4.18382332e-03 3.25181044e-05 1.78653574e-01
 1.62593166e-05 1.47620853e-01 6.55953177e-02 5.85310652e-05]
```

```

7.15370379e-05 2.49733666e-01 5.33029831e-04 1.84181175e-01
3.23030501e-02 1.22553212e-02 2.05820488e-01 8.74505682e-02
2.30740000e-01 6.01571297e-02 1.25941128e-01 6.50379008e-06
4.95797772e-02 3.63533732e-03 9.99647284e-02 3.50436798e-02
8.43784007e-03 1.56206634e-02 4.59295596e-02 3.08927382e-02
1.49022139e-02 1.89620169e-02 8.16172513e-02 5.68357039e-02
3.56373026e-02 1.82747688e-03 1.70758208e-03 1.47254267e-01
6.75993541e-03 6.46669095e-02 2.69909016e-02 8.54970695e-03
2.43622477e-03 9.34951123e-02 4.22574121e-03 2.13784384e-02
2.15201132e-01 4.36436723e-03 1.39312582e-03 7.91651870e-03
8.08608976e-03 1.90807957e-02 3.31397827e-02 1.72217181e-01
8.44783343e-04 2.13784384e-02 1.23095724e-03 3.07977648e-03
1.81775676e-03 3.26882685e-02 3.13148295e-03 9.52663970e-03
3.36732503e-03 3.54333224e-04 8.71586134e-03 1.19851718e-03
2.17830914e-04 1.48715937e-03 1.05461503e-02 2.84379699e-03
1.94410349e-03 3.64081961e-04 4.23218980e-03 7.80398974e-05
1.08324975e-02 1.93762496e-03 2.18726241e-02 9.90850703e-04
3.50738327e-02 8.49217865e-03 1.02979477e-03 5.13084689e-02
7.55478206e-03 6.96518165e-03 1.28610049e-03 2.76336472e-04
5.85453731e-03 2.80829653e-02 1.04474800e-02 6.37807537e-03
1.09309446e-01 5.09553549e-03 1.87283493e-03 1.13038616e-03
6.14046516e-03 1.12267396e-02 2.08079321e-04 1.59318503e-04
2.04774858e-03 2.48172510e-02 6.53207916e-04 7.11585420e-03
3.84512473e-03 1.72457062e-02 4.29667103e-03 1.47645823e-01
1.81516324e-02 1.79386322e-02 1.82446258e-01 3.77399819e-02
2.16194870e-01 2.49888130e-01 4.85086043e-03 3.92578840e-03
2.49996899e-01 2.91845736e-02 7.41065245e-03 5.75169084e-03
5.25643931e-03 1.68636172e-01 1.66347712e-01 2.49929308e-01
1.71327335e-02]

```

```

[ ]: var_pct = ['{:.3g}%'.format(x*100) for x in X_scl.var(axis=0)]
for c,v in zip(df_trans.columns, var_pct):
    print(c, v)

```

```

CNT_CHILDREN 0.144%
AMT_INCOME_TOTAL 0.000411%
AMT_CREDIT 1.01%
AMT_ANNUITY 0.32%
AMT_GOODS_PRICE 0.848%
REGION_POPULATION_RELATIVE 3.67%
DAYS_BIRTH 6.05%
DAYS_EMPLOYED 13.6%
DAYS_REGISTRATION 2.04%
DAYS_ID_PUBLISH 4.4%
OWN_CAR_AGE 0.611%
CNT_FAM_MEMBERS 0.23%
REGION_RATING_CLIENT 6.48%
REGION_RATING_CLIENT_W_CITY 6.32%

```

HOUR_APPR_PROCESS_START 2.02%
 EXT_SOURCE_1 2.16%
 EXT_SOURCE_2 4.98%
 EXT_SOURCE_3 3.81%
 OBS_30_CNT_SOCIAL_CIRCLE 0.00475%
 DEF_30_CNT_SOCIAL_CIRCLE 0.0172%
 OBS_60_CNT_SOCIAL_CIRCLE 0.00478%
 DEF_60_CNT_SOCIAL_CIRCLE 0.0227%
 DAYS_LAST_PHONE_CHANGE 3.71%
 AMT_REQ_CREDIT_BUREAU_HOUR 0.038%
 AMT_REQ_CREDIT_BUREAU_DAY 0.0131%
 AMT_REQ_CREDIT_BUREAU_WEEK 0.0568%
 AMT_REQ_CREDIT_BUREAU_MON 0.101%
 AMT_REQ_CREDIT_BUREAU_QRT 0.000813%
 AMT_REQ_CREDIT_BUREAU_YEAR 0.499%
 APARTMENTS_AVG 0.577%
 BASEMENTAREA_AVG 0.282%
 YEARS_BEGINEXPLUATATION_AVG 0.18%
 YEARS_BUILD_AVG 0.43%
 COMMONAREA_AVG 0.174%
 ELEVATORS_AVG 0.846%
 ENTRANCES_AVG 0.497%
 FLOORSMAX_AVG 1.05%
 FLOORSMIN_AVG 0.837%
 LANDAREA_AVG 0.268%
 LIVINGAPARTMENTS_AVG 0.271%
 LIVINGAREA_AVG 0.609%
 NONLIVINGAPARTMENTS_AVG 0.0696%
 NONLIVINGAREA_AVG 0.217%
 APARTMENTS_MEDI 0.611%
 BASEMENTAREA_MEDI 0.284%
 YEARS_BEGINEXPLUATATION_MEDI 0.184%
 YEARS_BUILD_MEDI 0.421%
 COMMONAREA_MEDI 0.187%
 ELEVATORS_MEDI 0.996%
 ENTRANCES_MEDI 0.503%
 FLOORSMAX_MEDI 1.14%
 FLOORSMIN_MEDI 0.855%
 LANDAREA_MEDI 0.282%
 LIVINGAPARTMENTS_MEDI 0.292%
 LIVINGAREA_MEDI 0.656%
 NONLIVINGAPARTMENTS_MEDI 0.0703%
 NONLIVINGAREA_MEDI 0.236%
 APARTMENTS_MODE 0.597%
 BASEMENTAREA_MODE 0.481%
 YEARS_BEGINEXPLUATATION_MODE 0.216%
 YEARS_BUILD_MODE 0.517%
 COMMONAREA_MODE 0.205%

ELEVATORS_MODE 0.955%
ENTRANCES_MODE 0.508%
FLOORSMAX_MODE 1.11%
FLOORSMIN_MODE 0.844%
LANDAREA_MODE 0.373%
LIVINGAPARTMENTS_MODE 0.358%
LIVINGAREA_MODE 0.904%
NONLIVINGAPARTMENTS_MODE 0.0668%
NONLIVINGAREA_MODE 0.239%
TOTALAREA_MODE 0.86%
NAME_CONTRACT_TYPE 8.61%
FLAG_OWN_CAR 22.4%
FLAG_OWN_REALTY 21.2%
EMERGENCYSTATE_MODE 0.751%
CODE_GENDER 22.5%
WEEKDAY_APPR_PROCESS_START 321%
FLAG_MOBIL 0.000325%
FLAG_EMP_PHONE 14.8%
FLAG_WORK_PHONE 16%
FLAG_CONT_MOBILE 0.186%
FLAG_PHONE 20.2%
FLAG_EMAIL 5.35%
REG_REGION_NOT_LIVE_REGION 1.49%
REG_REGION_NOT_WORK_REGION 4.82%
LIVE_REGION_NOT_WORK_REGION 3.9%
REG_CITY_NOT_LIVE_CITY 7.21%
REG_CITY_NOT_WORK_CITY 17.7%
LIVE_CITY_NOT_WORK_CITY 14.7%
FLAG_DOCUMENT_2 0.00423%
FLAG_DOCUMENT_3 20.6%
FLAG_DOCUMENT_4 0.00813%
FLAG_DOCUMENT_5 1.49%
FLAG_DOCUMENT_6 8.03%
FLAG_DOCUMENT_7 0.0192%
FLAG_DOCUMENT_8 7.48%
FLAG_DOCUMENT_9 0.388%
FLAG_DOCUMENT_10 0.00228%
FLAG_DOCUMENT_11 0.39%
FLAG_DOCUMENT_12 0.00065%
FLAG_DOCUMENT_13 0.351%
FLAG_DOCUMENT_14 0.293%
FLAG_DOCUMENT_15 0.121%
FLAG_DOCUMENT_16 0.983%
FLAG_DOCUMENT_17 0.0267%
FLAG_DOCUMENT_18 0.806%
FLAG_DOCUMENT_19 0.0595%
FLAG_DOCUMENT_20 0.0507%
FLAG_DOCUMENT_21 0.0335%

NAME_TYPE_SUITE_children 1.05%
NAME_TYPE_SUITE_family 11.4%
NAME_TYPE_SUITE_group_of_people 0.088%
NAME_TYPE_SUITE_other_a 0.281%
NAME_TYPE_SUITE_other_b 0.572%
NAME_TYPE_SUITE_spouse_or_partner 3.56%
NAME_TYPE_SUITE_unaccompanied 15.5%
NAME_TYPE_SUITE_unknown 0.418%
NAME_INCOME_TYPE_businessman 0.00325%
NAME_INCOME_TYPE_commercial_associate 17.9%
NAME_INCOME_TYPE_maternity_leave 0.00163%
NAME_INCOME_TYPE_pensioner 14.8%
NAME_INCOME_TYPE_state_servant 6.56%
NAME_INCOME_TYPE_student 0.00585%
NAME_INCOME_TYPE_unemployed 0.00715%
NAME_INCOME_TYPE_working 25%
NAME_EDUCATION_TYPE_academic_degree 0.0533%
NAME_EDUCATION_TYPE_higher_education 18.4%
NAME_EDUCATION_TYPE_incomplete_higher 3.23%
NAME_EDUCATION_TYPE_lower_secondary 1.23%
NAME_EDUCATION_TYPE_secondary_or_secondary_special 20.6%
NAME_FAMILY_STATUS_civil_marriage 8.75%
NAME_FAMILY_STATUS_married 23.1%
NAME_FAMILY_STATUS_separated 6.02%
NAME_FAMILY_STATUS_single_or_not_married 12.6%
NAME_FAMILY_STATUS_unknown 0.00065%
NAME_FAMILY_STATUS_widow 4.96%
NAME_HOUSING_TYPE_coop_apartment 0.364%
NAME_HOUSING_TYPE_house_or_apartment 10%
NAME_HOUSING_TYPE_municipal_apartment 3.5%
NAME_HOUSING_TYPE_office_apartment 0.844%
NAME_HOUSING_TYPE_rented_apartment 1.56%
NAME_HOUSING_TYPE_with_parents 4.59%
OCCUPATION_TYPE_accountants 3.09%
OCCUPATION_TYPE_cleaning_staff 1.49%
OCCUPATION_TYPE_cooking_staff 1.9%
OCCUPATION_TYPE_core_staff 8.16%
OCCUPATION_TYPE_drivers 5.68%
OCCUPATION_TYPE_high_skill_tech_staff 3.56%
OCCUPATION_TYPE_hr_staff 0.183%
OCCUPATION_TYPE_it_staff 0.171%
OCCUPATION_TYPE_laborers 14.7%
OCCUPATION_TYPE_lowskill_laborers 0.676%
OCCUPATION_TYPE_managers 6.47%
OCCUPATION_TYPE_medicine_staff 2.7%
OCCUPATION_TYPE_private_service_staff 0.855%
OCCUPATION_TYPE_realty_agents 0.244%
OCCUPATION_TYPE_sales_staff 9.35%

OCCUPATION_TYPE_secretaries 0.423%
OCCUPATION_TYPE_security_staff 2.14%
OCCUPATION_TYPE_unknown 21.5%
OCCUPATION_TYPE_waitersorbarmen_staff 0.436%
ORGANIZATION_TYPE_advertising 0.139%
ORGANIZATION_TYPE_agriculture 0.792%
ORGANIZATION_TYPE_bank 0.809%
ORGANIZATION_TYPE_business_entity_type_1 1.91%
ORGANIZATION_TYPE_business_entity_type_2 3.31%
ORGANIZATION_TYPE_business_entity_type_3 17.2%
ORGANIZATION_TYPE_cleaning 0.0845%
ORGANIZATION_TYPE_construction 2.14%
ORGANIZATION_TYPE_culture 0.123%
ORGANIZATION_TYPE_electricity 0.308%
ORGANIZATION_TYPE_emergency 0.182%
ORGANIZATION_TYPE_government 3.27%
ORGANIZATION_TYPE_hotel 0.313%
ORGANIZATION_TYPE_housing 0.953%
ORGANIZATION_TYPE_industry_type_1 0.337%
ORGANIZATION_TYPE_industry_type_10 0.0354%
ORGANIZATION_TYPE_industry_type_11 0.872%
ORGANIZATION_TYPE_industry_type_12 0.12%
ORGANIZATION_TYPE_industry_type_13 0.0218%
ORGANIZATION_TYPE_industry_type_2 0.149%
ORGANIZATION_TYPE_industry_type_3 1.05%
ORGANIZATION_TYPE_industry_type_4 0.284%
ORGANIZATION_TYPE_industry_type_5 0.194%
ORGANIZATION_TYPE_industry_type_6 0.0364%
ORGANIZATION_TYPE_industry_type_7 0.423%
ORGANIZATION_TYPE_industry_type_8 0.0078%
ORGANIZATION_TYPE_industry_type_9 1.08%
ORGANIZATION_TYPE_insurance 0.194%
ORGANIZATION_TYPE_kindergarten 2.19%
ORGANIZATION_TYPE_legal_services 0.0991%
ORGANIZATION_TYPE_medicine 3.51%
ORGANIZATION_TYPE_military 0.849%
ORGANIZATION_TYPE_mobile 0.103%
ORGANIZATION_TYPE_other 5.13%
ORGANIZATION_TYPE_police 0.755%
ORGANIZATION_TYPE_postal 0.697%
ORGANIZATION_TYPE_realtor 0.129%
ORGANIZATION_TYPE_religion 0.0276%
ORGANIZATION_TYPE_restaurant 0.585%
ORGANIZATION_TYPE_school 2.81%
ORGANIZATION_TYPE_security 1.04%
ORGANIZATION_TYPE_security_ministries 0.638%
ORGANIZATION_TYPE_selfemployed 10.9%
ORGANIZATION_TYPE_services 0.51%

ORGANIZATION_TYPE_telecom 0.187%
ORGANIZATION_TYPE_trade_type_1 0.113%
ORGANIZATION_TYPE_trade_type_2 0.614%
ORGANIZATION_TYPE_trade_type_3 1.12%
ORGANIZATION_TYPE_trade_type_4 0.0208%
ORGANIZATION_TYPE_trade_type_5 0.0159%
ORGANIZATION_TYPE_trade_type_6 0.205%
ORGANIZATION_TYPE_trade_type_7 2.48%
ORGANIZATION_TYPE_transport_type_1 0.0653%
ORGANIZATION_TYPE_transport_type_2 0.712%
ORGANIZATION_TYPE_transport_type_3 0.385%
ORGANIZATION_TYPE_transport_type_4 1.72%
ORGANIZATION_TYPE_university 0.43%
ORGANIZATION_TYPE_xna 14.8%
FONDKAPREMONT_MODE_not_specified 1.82%
FONDKAPREMONT_MODE_org_spec_account 1.79%
FONDKAPREMONT_MODE_reg_oper_account 18.2%
FONDKAPREMONT_MODE_reg_oper_spec_account 3.77%
FONDKAPREMONT_MODE_unknown 21.6%
HOUSETYPE_MODE_block_of_flats 25%
HOUSETYPE_MODE_specific_housing 0.485%
HOUSETYPE_MODE_terraced_house 0.393%
HOUSETYPE_MODE_unknown 25%
WALLSMATERIAL_MODE_block 2.92%
WALLSMATERIAL_MODE_mixed 0.741%
WALLSMATERIAL_MODE_monolithic 0.575%
WALLSMATERIAL_MODE_others 0.526%
WALLSMATERIAL_MODE_panel 16.9%
WALLSMATERIAL_MODE_stone_or_brick 16.6%
WALLSMATERIAL_MODE_unknown 25%
WALLSMATERIAL_MODE_wooden 1.71%