## I. List of final variables along with respective univariate KS's (filter score)

Order         Score           1         max_count_by_address_30         0.355872           2         max_count_by_ssn_dob_7         0.225774           3         max_count_by_homephone_7         0.232724           4         zip5_unique_count_for_fulladdress_dob_1         0.219167           5         name_day_since         0.209358           6         max_count_by_fulladdress_30         0.356094           7         max_count_by_ssn_firstname_30         0.236333           8         max_count_by_ssn_firstname_30         0.226131           9         address_count_30         0.32996           10         max_count_by_address_7         0.343199           11         address_day_since         0.331458           12         max_count_by_address_3         0.328576           13         max_count_by_address_3         0.328576           13         max_count_by_fulladdress_3         0.328381           14         address_count_14         0.320782           15         fulladdress_count_14         0.320020           16         max_count_by_fulladdress_1         0.314053           17         max_count_by_fulladdress_1         0.314053           18         address_count_7         0	Wrapper	Variable	Filter
2         max_count_by_ssn_dob_7         0.225774           3         max_count_by_homephone_7         0.232724           4         zip5_unique_count_for_fulladdress_dob_1         0.219167           5         name_day_since         0.209358           6         max_count_by_fulladdress_30         0.356094           7         max_count_by_ssn_firstname_30         0.226131           8         max_count_by_homephone_30         0.226131           9         address_count_30         0.32996           10         max_count_by_address_7         0.343199           11         address_day_since         0.331458           12         max_count_by_address_3         0.328576           13         max_count_by_dulladdress_3         0.328576           13         max_count_by_fulladdress_3         0.320782           15         fulladdress_count_14         0.320782           16         max_count_by_fulladdress_1         0.314053           17         max_count_by_fulladdress_1         0.314053           18         address_count_7         0.30069           20         address_count_7         0.301069           19         fulladdress_unique_count_for_sn_homephone_60         0.287489           2		may count by address 20	
3         max_count_by_homephone_7         0.232724           4         zip5_unique_count_for_fulladdress_dob_1         0.219167           5         name_day_since         0.209358           6         max_count_by_fulladdress_30         0.356094           7         max_count_by_ssn_firstname_30         0.236333           8         max_count_by_homephone_30         0.226131           9         address_count_30         0.32996           10         max_count_by_address_7         0.343199           11         address_day_since         0.331458           12         max_count_by_address_3         0.328576           13         max_count_by_fulladdress_3         0.328381           14         address_count_14         0.320202           15         fulladdress_count_14         0.320202           16         max_count_by_fulladdress_1         0.314053           17         max_count_by_fulladdress_1         0.314053           18         address_count_7         0.300964           20         address_count_7         0.300964           20         address_count_0_by_30         0.288978           21         fulladdress_unique_count_for_sn_homephone_60         0.287085           23			
4         zip5_unique_count_for_fulladdress_dob_1         0.219167           5         name_day_since         0.209358           6         max_count_by_fulladdress_30         0.356094           7         max_count_by_fulladdress_30         0.236333           8         max_count_by_homephone_30         0.226131           9         address_count_30         0.32996           10         max_count_by_address_7         0.343199           11         address_day_since         0.331458           12         max_count_by_address_3         0.328376           13         max_count_by_fulladdress_3         0.328376           14         address_count_14         0.320202           15         fulladdress_count_14         0.320202           16         max_count_by_fulladdress_1         0.314053           17         max_count_by_fulladdress_1         0.313893           18         address_count_7         0.300964           20         address_count_0_by_30         0.288978           21         fulladdress_unique_count_for_ssn_homephone_60         0.287489           22         fulladdress_unique_count_for_homephone_name_do         0.286135           24         fulladdress_unique_count_for_ssn_lastname_60         0			
5         name_day_since         0.209358           6         max_count_by_fulladdress_30         0.356094           7         max_count_by_ssn_firstname_30         0.236333           8         max_count_by_homephone_30         0.226131           9         address_count_30         0.32996           10         max_count_by_address_7         0.343199           11         address_day_since         0.331458           12         max_count_by_address_3         0.328576           13         max_count_by_dulladdress_3         0.328871           14         address_count_14         0.320202           15         fulladdress_count_14         0.320202           16         max_count_by_fulladdress_1         0.314053           17         max_count_by_fulladdress_1         0.314953           18         address_count_7         0.301069           19         fulladdress_count_7         0.301069           20         address_count_0_by_30         0.288978           21         fulladdress_unique_count_for_ssn_homephone_60         0.287085           23         fulladdress_unique_count_for_dob_homephone_60         0.287085           24         fulladdress_unique_count_for_ssn_lastname_60         0.28493		:	
6         max_count_by_fulladdress_30         0.356094           7         max_count_by_ssn_firstname_30         0.236333           8         max_count_by_homephone_30         0.226131           9         address_count_30         0.32996           10         max_count_by_address_7         0.343199           11         address_day_since         0.331458           12         max_count_by_address_3         0.328576           13         max_count_by_fulladdress_3         0.328381           14         address_count_14         0.320022           15         fulladdress_count_14         0.320022           16         max_count_by_address_1         0.314053           17         max_count_by_fulladdress_1         0.314053           18         address_count_7         0.301069           19         fulladdress_count_7         0.300964           20         address_count_0_by_30         0.288978           21         fulladdress_unique_count_for_ssn_homephone_60         0.287085           22         fulladdress_unique_count_for_homephone_name_do         0.286088           25         fulladdress_unique_count_for_ssn_lastname_60         0.284964           26         fulladdress_unique_count_for_ssn_firstname_60			<del>                                     </del>
7         max_count_by_ssn_firstname_30         0.236333           8         max_count_by_homephone_30         0.226131           9         address_count_30         0.32996           10         max_count_by_address_7         0.343199           11         address_day_since         0.331458           12         max_count_by_address_3         0.328576           13         max_count_by_fulladdress_3         0.320782           15         fulladdress_count_14         0.320202           16         max_count_by_address_1         0.314053           17         max_count_by_fulladdress_1         0.313893           18         address_count_7         0.301069           19         fulladdress_count_0_by_30         0.288978           21         fulladdress_unique_count_for_ssn_homephone_60         0.287085           23         fulladdress_unique_count_for_homephone_name_do         0.287085           24         fulladdress_unique_count_for_ssn_lastname_60         0.284964           25         fulladdress_unique_count_for_ssn_lastname_60         0.284933           27         fulladdress_unique_count_for_ssn_firstname_60         0.284933           27         fulladdress_unique_count_for_ssn_firstname_60         0.284933			
8         max_count_by_homephone_30         0.226131           9         address_count_30         0.32996           10         max_count_by_address_7         0.343199           11         address_day_since         0.331458           12         max_count_by_address_3         0.328576           13         max_count_by_fulladdress_3         0.328381           14         address_count_14         0.320202           15         fulladdress_count_14         0.320202           16         max_count_by_address_1         0.314053           17         max_count_by_fulladdress_1         0.313893           18         address_count_7         0.301069           19         fulladdress_count_7         0.300964           20         address_count_0_by_30         0.288978           21         fulladdress_unique_count_for_ssn_homephone_60         0.287489           22         fulladdress_unique_count_for_homephone_name_do         0.286088           23         fulladdress_unique_count_for_ssn_name_60         0.284964           26         fulladdress_unique_count_for_ssn_lastname_60         0.284964           26         fulladdress_unique_count_for_ssn_firstname_60         0.284933           27         fulladdress_unique_cou			<del>                                     </del>
9         address_count_30         0.32996           10         max_count_by_address_7         0.343199           11         address_day_since         0.331458           12         max_count_by_address_3         0.328576           13         max_count_by_fulladdress_3         0.328381           14         address_count_14         0.320782           15         fulladdress_count_14         0.320202           16         max_count_by_address_1         0.314053           17         max_count_by_fulladdress_1         0.313893           18         address_count_7         0.301069           19         fulladdress_count_7         0.300964           20         address_count_0_by_30         0.288978           21         fulladdress_unique_count_for_ssn_homephone_60         0.287489           22         fulladdress_unique_count_for_homephone_name_do         0.286135           24         fulladdress_unique_count_for_ssn_name_60         0.284964           25         fulladdress_unique_count_for_ssn_lastname_60         0.284964           26         fulladdress_unique_count_for_ssn_firstname_60         0.284933           27         fulladdress_unique_count_for_ssn_firstname_60         0.284925           28         f			
10         max_count_by_address_7         0.343199           11         address_day_since         0.331458           12         max_count_by_address_3         0.328576           13         max_count_by_fulladdress_3         0.320782           14         address_count_14         0.320202           15         fulladdress_count_14         0.320202           16         max_count_by_address_1         0.314053           17         max_count_by_fulladdress_1         0.314053           18         address_count_7         0.301069           19         fulladdress_count_7         0.300964           20         address_count_0_by_30         0.288978           21         fulladdress_unique_count_for_ssn_homephone_60         0.287489           22         fulladdress_unique_count_for_name_homephone_60         0.287085           23         fulladdress_unique_count_for_sn_name_60         0.286088           25         fulladdress_unique_count_for_ssn_lastname_60         0.284064           26         fulladdress_unique_count_for_ssn_firstname_60         0.284933           27         fulladdress_unique_count_for_ssn_firstname_60         0.284925           28         fulladdress_unique_count_for_ssn_homephone_30         0.282926			
11         address_day_since         0.331458           12         max_count_by_address_3         0.328576           13         max_count_by_fulladdress_3         0.328381           14         address_count_14         0.320202           15         fulladdress_count_14         0.320202           16         max_count_by_address_1         0.314053           17         max_count_by_fulladdress_1         0.313893           18         address_count_7         0.301069           19         fulladdress_count_7         0.300964           20         address_count_0_by_30         0.288978           21         fulladdress_unique_count_for_ssn_homephone_60         0.287489           22         fulladdress_unique_count_for_name_homephone_60         0.287085           23         fulladdress_unique_count_for_sn_name_do         0.286135           24         fulladdress_unique_count_for_ssn_name_60         0.286088           25         fulladdress_unique_count_for_ssn_lastname_60         0.284964           26         fulladdress_unique_count_for_ssn_firstname_60         0.284925           28         fulladdress_unique_count_for_ssn_anme_dob_60         0.284925           29         fulladdress_unique_count_for_ssn_homephone_30         0.282268     <		<del></del>	
12         max_count_by_address_3         0.328576           13         max_count_by_fulladdress_3         0.328381           14         address_count_14         0.320782           15         fulladdress_count_14         0.320202           16         max_count_by_address_1         0.314053           17         max_count_by_fulladdress_1         0.313893           18         address_count_7         0.301069           19         fulladdress_count_7         0.300964           20         address_count_0_by_30         0.288978           21         fulladdress_unique_count_for_ssn_homephone_60         0.287489           22         fulladdress_unique_count_for_name_homephone_60         0.287085           23         fulladdress_unique_count_for_homephone_name_do         0.286135           24         fulladdress_unique_count_for_dob_homephone_60         0.286088           25         fulladdress_unique_count_for_ssn_name_60         0.284964           26         fulladdress_unique_count_for_ssn_lastname_60         0.284964           26         fulladdress_unique_count_for_ssn_firstname_60         0.284925           28         fulladdress_unique_count_for_ssn_homephone_30         0.283268           30         fulladdress_unique_count_for_ssn_homephone_30<			
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14         address_count_14         0.320782           15         fulladdress_count_14         0.320202           16         max_count_by_address_1         0.314053           17         max_count_by_fulladdress_1         0.313893           18         address_count_7         0.301069           19         fulladdress_count_7         0.300964           20         address_count_0_by_30         0.288978           21         fulladdress_unique_count_for_ssn_homephone_60         0.287489           22         fulladdress_unique_count_for_name_homephone_60         0.287085           23         fulladdress_unique_count_for_homephone_name_do         0.286135           24         fulladdress_unique_count_for_dob_homephone_60         0.286088           25         fulladdress_unique_count_for_ssn_name_60         0.284964           26         fulladdress_unique_count_for_ssn_lastname_60         0.284933           27         fulladdress_unique_count_for_ssn_firstname_60         0.284925           28         fulladdress_unique_count_for_ssn_lame_dob_60         0.283268           30         fulladdress_unique_count_for_ssn_homephone_30         0.282986           32         fulladdress_unique_count_for_name_homephone_30         0.282725           33         full	12	max_count_by_address_3	0.328576
15fulladdress_count_140.32020216max_count_by_address_10.31405317max_count_by_fulladdress_10.31389318address_count_70.30106919fulladdress_count_70.30096420address_count_0_by_300.28897821fulladdress_unique_count_for_ssn_homephone_600.28748922fulladdress_unique_count_for_name_homephone_600.28708523fulladdress_unique_count_for_homephone_name_do0.28608825fulladdress_unique_count_for_dob_homephone_600.28608825fulladdress_unique_count_for_ssn_name_600.28496426fulladdress_unique_count_for_ssn_lastname_600.28493327fulladdress_unique_count_for_ssn_firstname_600.28492528fulladdress_unique_count_for_ssn_600.28491729fulladdress_unique_count_for_ssn_name_dob_600.28326830fulladdress_unique_count_for_ssn_homephone_300.28298630fulladdress_unique_count_for_ssn_homephone_300.28272531fulladdress_unique_count_for_name_homephone_300.28272533fulladdress_unique_count_for_homephone_name_do0.282018	13	max_count_by_fulladdress_3	0.328381
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fulladdress_unique_count_for_name_homephone_60 0.287085 fulladdress_unique_count_for_homephone_name_do 0.286135 fulladdress_unique_count_for_dob_homephone_60 0.286088 fulladdress_unique_count_for_ssn_name_60 0.284964 fulladdress_unique_count_for_ssn_lastname_60 0.284933 fulladdress_unique_count_for_ssn_firstname_60 0.284933 fulladdress_unique_count_for_ssn_firstname_60 0.284925 fulladdress_unique_count_for_ssn_60 0.284917 fulladdress_unique_count_for_ssn_name_dob_60 0.283268 fulladdress_unique_count_for_ssn_dob_60 0.283222 fulladdress_unique_count_for_ssn_homephone_30 0.282986 fulladdress_unique_count_for_name_60 0.282725 fulladdress_unique_count_for_name_homephone_30 0.282455 fulladdress_unique_count_for_name_homephone_name_do 0.282018	20	address_count_0_by_30	0.288978
fulladdress_unique_count_for_homephone_name_do  fulladdress_unique_count_for_dob_homephone_60  fulladdress_unique_count_for_ssn_name_60  fulladdress_unique_count_for_ssn_lastname_60  fulladdress_unique_count_for_ssn_lastname_60  fulladdress_unique_count_for_ssn_firstname_60  fulladdress_unique_count_for_ssn_firstname_60  fulladdress_unique_count_for_ssn_firstname_60  fulladdress_unique_count_for_ssn_ame_dob_60  fulladdress_unique_count_for_ssn_name_dob_60  fulladdress_unique_count_for_ssn_dob_60  fulladdress_unique_count_for_ssn_homephone_30  fulladdress_unique_count_for_name_60  fulladdress_unique_count_for_name_homephone_30  fulladdress_unique_count_for_name_homephone_30  fulladdress_unique_count_for_name_homephone_30  fulladdress_unique_count_for_name_homephone_30  fulladdress_unique_count_for_name_homephone_ame_do  fulladdress_unique_count_for_homephone_name_do  fulladdress_unique_count_for_homephone_name_do  0.282018	21	fulladdress_unique_count_for_ssn_homephone_60	0.287489
fulladdress_unique_count_for_dob_homephone_60  count_for_ssn_name_60  fulladdress_unique_count_for_ssn_lastname_60  fulladdress_unique_count_for_ssn_lastname_60  fulladdress_unique_count_for_ssn_firstname_60  fulladdress_unique_count_for_ssn_firstname_60  fulladdress_unique_count_for_ssn_60  fulladdress_unique_count_for_ssn_name_dob_60  fulladdress_unique_count_for_ssn_dob_60  fulladdress_unique_count_for_ssn_homephone_30  fulladdress_unique_count_for_name_60  fulladdress_unique_count_for_name_60  fulladdress_unique_count_for_name_homephone_30  fulladdress_unique_count_for_name_homephone_30  fulladdress_unique_count_for_name_homephone_30  fulladdress_unique_count_for_name_homephone_30  fulladdress_unique_count_for_homephone_name_do  fulladdress_unique_count_for_homephone_name_do  fulladdress_unique_count_for_homephone_name_do  fulladdress_unique_count_for_homephone_name_do  0.282018	22	fulladdress_unique_count_for_name_homephone_60	0.287085
fulladdress_unique_count_for_ssn_name_60 0.284964  fulladdress_unique_count_for_ssn_lastname_60 0.284933  fulladdress_unique_count_for_ssn_firstname_60 0.284925  fulladdress_unique_count_for_ssn_60 0.284917  fulladdress_unique_count_for_ssn_name_dob_60 0.283268  fulladdress_unique_count_for_ssn_dob_60 0.283222  fulladdress_unique_count_for_ssn_homephone_30 0.282986  fulladdress_unique_count_for_name_60 0.282725  fulladdress_unique_count_for_name_homephone_30 0.282455  fulladdress_unique_count_for_name_homephone_name_do 0.282018	23	fulladdress_unique_count_for_homephone_name_do	0.286135
fulladdress_unique_count_for_ssn_lastname_60 0.284933  fulladdress_unique_count_for_ssn_firstname_60 0.284925  fulladdress_unique_count_for_ssn_60 0.284917  fulladdress_unique_count_for_ssn_name_dob_60 0.283268  fulladdress_unique_count_for_ssn_dob_60 0.283222  fulladdress_unique_count_for_ssn_homephone_30 0.282986  fulladdress_unique_count_for_name_60 0.282725  fulladdress_unique_count_for_name_homephone_30 0.282455  fulladdress_unique_count_for_name_do 0.282018	24	fulladdress unique count for dob homephone 60	0.286088
fulladdress_unique_count_for_ssn_firstname_60 0.284925  fulladdress_unique_count_for_ssn_60 0.284917  fulladdress_unique_count_for_ssn_name_dob_60 0.283268  fulladdress_unique_count_for_ssn_dob_60 0.283222  fulladdress_unique_count_for_ssn_homephone_30 0.282986  fulladdress_unique_count_for_name_60 0.282725  fulladdress_unique_count_for_name_homephone_30 0.282455  fulladdress_unique_count_for_homephone_name_do 0.282018	25	fulladdress unique count for ssn name 60	0.284964
fulladdress_unique_count_for_ssn_firstname_60 0.284925  fulladdress_unique_count_for_ssn_60 0.284917  fulladdress_unique_count_for_ssn_name_dob_60 0.283268  fulladdress_unique_count_for_ssn_dob_60 0.283222  fulladdress_unique_count_for_ssn_homephone_30 0.282986  fulladdress_unique_count_for_name_60 0.282725  fulladdress_unique_count_for_name_homephone_30 0.282455  fulladdress_unique_count_for_homephone_name_do 0.282018	26	fulladdress unique count for ssn lastname 60	0.284933
fulladdress_unique_count_for_ssn_60 0.284917  fulladdress_unique_count_for_ssn_name_dob_60 0.283268  fulladdress_unique_count_for_ssn_dob_60 0.283222  fulladdress_unique_count_for_ssn_homephone_30 0.282986  fulladdress_unique_count_for_name_60 0.282725  fulladdress_unique_count_for_name_homephone_30 0.282455  fulladdress_unique_count_for_homephone_name_do 0.282018	27	fulladdress unique count for ssn firstname 60	0.284925
fulladdress_unique_count_for_ssn_name_dob_60 0.283268  fulladdress_unique_count_for_ssn_dob_60 0.283222  fulladdress_unique_count_for_ssn_homephone_30 0.282986  fulladdress_unique_count_for_name_60 0.282725  fulladdress_unique_count_for_name_homephone_30 0.282455  fulladdress_unique_count_for_homephone_name_do 0.282018	28		0.284917
30fulladdress_unique_count_for_ssn_dob_600.28322231fulladdress_unique_count_for_ssn_homephone_300.28298632fulladdress_unique_count_for_name_600.28272533fulladdress_unique_count_for_name_homephone_300.28245534fulladdress_unique_count_for_homephone_name_do0.282018			
31fulladdress_unique_count_for_ssn_homephone_300.28298632fulladdress_unique_count_for_name_600.28272533fulladdress_unique_count_for_name_homephone_300.28245534fulladdress_unique_count_for_homephone_name_do0.282018	30		
32fulladdress_unique_count_for_name_600.28272533fulladdress_unique_count_for_name_homephone_300.28245534fulladdress_unique_count_for_homephone_name_do0.282018			
fulladdress_unique_count_for_name_homephone_30 0.282455 fulladdress_unique_count_for_homephone_name_do 0.282018			
34 fulladdress_unique_count_for_homephone_name_do 0.282018			
	35	fulladdress unique count for dob homephone 30	0.281967

Wrapper Order	Variable	Filter Score
36	fulladdress_unique_count_for_name_dob_60	0.281498
37	fulladdress_unique_count_for_dob_60	0.28145
38	fulladdress_unique_count_for_ssn_name_30	0.281084
39	fulladdress_unique_count_for_ssn_firstname_30	0.281032
40	fulladdress_unique_count_for_ssn_lastname_30	0.281032
41	fulladdress_unique_count_for_ssn_30	0.280996
42	fulladdress_unique_count_for_ssn_name_dob_30	0.280299
43	fulladdress_unique_count_for_ssn_dob_30	0.280248
44	address_count_0_by_14	0.280014
45	fulladdress_count_0_by_14	0.278876
46	fulladdress_unique_count_for_name_30	0.278808
47	fulladdress_count_3	0.278379
48	address_count_3	0.278345
49	fulladdress_unique_count_for_name_dob_30	0.278146
50	fulladdress_unique_count_for_dob_30	0.278025

## II. Model performance vs # variables

