The HPFOREST Procedure

Performance Information	
Execution Mode	Single-Machine
Number of Threads	2

Data Access Information			
Data	Engine	Role	Path
WORK.IMMUNIZATION_MODEL	V9	Input	On Client

Model Information		
Parameter	Value	
Variables to Try	2	(Default)
Maximum Trees	100	(Default)
Actual Trees	100	
Inbag Fraction	0.6	(Default)
Prune Fraction	0	(Default)
Prune Threshold	0.1	(Default)
Leaf Fraction	0.00001	(Default)
Leaf Size Setting	1	(Default)
Leaf Size Used	1	
Category Bins	30	(Default)
Interval Bins	100	
Minimum Category Size	5	(Default)
Node Size	100000	(Default)
Maximum Depth	20	(Default)
Alpha	1	(Default)
Exhaustive	5000	(Default)
Rows of Sequence to Skip	5	(Default)
Split Criterion	.	Variance
Preselection Method	.	BinnedSearch
Missing Value Handling	.	Valid value

Number of Observations	
Type	N
Number of Observations Read	268
Number of Observations Used	268

Baseline Fit Statistics	
Statistic	Value
Average Square Error	0.159

Fit Statistics			
Number of Trees	Number of Leaves	Average Square Error (Train)	Average Square Error (OOB)
1	15	0.00746	0.01852
2	26	0.00933	0.05316
3	34	0.01216	0.05823
4	45	0.00948	0.04823

Fit Statistics			
Number of Trees	Number of Leaves	Average Square Error (Train)	Average Square Error (OOB)
5	57	0.00871	0.04735
6	68	0.00739	0.03705
7	78	0.00706	0.03854
8	90	0.00593	0.03321
9	99	0.00668	0.03495
10	107	0.00639	0.03384
11	116	0.00588	0.02959
12	124	0.00565	0.02770
13	140	0.00528	0.02623
14	152	0.00510	0.02637
15	167	0.00512	0.02628
16	179	0.00500	0.02584
17	189	0.00488	0.02569
18	195	0.00473	0.02481
19	205	0.00488	0.02559
20	215	0.00484	0.02536
21	224	0.00522	0.02562
22	232	0.00515	0.02514
23	239	0.00529	0.02524
24	247	0.00493	0.02457
25	255	0.00472	0.02378
26	265	0.00454	0.02306
27	275	0.00428	0.02283
28	282	0.00432	0.02327
29	292	0.00438	0.02399
30	299	0.00443	0.02458
31	313	0.00418	0.02382
32	321	0.00426	0.02402
33	328	0.00436	0.02439
34	338	0.00424	0.02413
35	347	0.00433	0.02446
36	358	0.00416	0.02408
37	370	0.00420	0.02426
38	382	0.00412	0.02367
39	395	0.00407	0.02365
40	403	0.00410	0.02357
41	409	0.00419	0.02390
42	421	0.00425	0.02387
43	435	0.00412	0.02330
44	450	0.00409	0.02346
45	465	0.00410	0.02319
46	477	0.00408	0.02349
47	489	0.00403	0.02379
48	499	0.00399	0.02358
49	510	0.00408	0.02399
50	522	0.00413	0.02422

Fit Statistics			
Number of Trees	Number of Leaves	Average Square Error (Train)	Average Square Error (OOB)
51	531	0.00419	0.02428
52	543	0.00422	0.02467
53	553	0.00421	0.02425
54	562	0.00407	0.02362
55	572	0.00399	0.02325
56	581	0.00398	0.02358
57	589	0.00399	0.02329
58	601	0.00396	0.02334
59	613	0.00395	0.02352
60	621	0.00393	0.02345
61	634	0.00393	0.02316
62	645	0.00397	0.02329
63	657	0.00400	0.02328
64	663	0.00403	0.02302
65	674	0.00398	0.02288
66	685	0.00393	0.02270
67	696	0.00388	0.02267
68	704	0.00390	0.02247
69	711	0.00395	0.02222
70	722	0.00397	0.02218
71	730	0.00392	0.02197
72	738	0.00395	0.02211
73	747	0.00397	0.02197
74	756	0.00399	0.02200
75	766	0.00399	0.02203
76	777	0.00403	0.02197
77	789	0.00398	0.02177
78	798	0.00397	0.02168
79	810	0.00394	0.02168
80	820	0.00396	0.02179
81	832	0.00400	0.02195
82	844	0.00398	0.02210
83	853	0.00395	0.02201
84	863	0.00386	0.02170
85	873	0.00385	0.02181
86	883	0.00380	0.02157
87	890	0.00382	0.02165
88	902	0.00383	0.02169
89	915	0.00376	0.02144
90	925	0.00376	0.02139
91	935	0.00375	0.02131
92	948	0.00379	0.02165
93	959	0.00376	0.02146
94	971	0.00376	0.02166
95	980	0.00375	0.02173
96	989	0.00376	0.02167

Fit Statistics			
Number of Trees	Number of Leaves	Average Square Error (Train)	Average Square Error (OOB)
97	1004	0.00373	0.02173
98	1014	0.00373	0.02162
99	1023	0.00377	0.02170
100	1030	0.00381	0.02180

Loss Reduction Variable Importance					
Variable	Number of Rules	MSE	OOB MSE	Absolute Error	OOB Absolute Error
COVID	225	0.060660	0.04790	0.121321	0.107931
Flu	179	0.045865	0.03121	0.091730	0.078023
HPV_complete	192	0.021929	0.01270	0.043857	0.034879
HPV_initiation	162	0.019090	0.00855	0.038180	0.026879
MenACWY	123	0.008585	0.00094	0.017170	0.009745
Tdap	49	0.002085	-0.00048	0.004170	0.001527