1	*				
	-*				
2	User:		u63452984		
3	Date:		07 January 202	4	
4	Time:		06:40:18		
5	*				
	_*				
6	* Training	g Output			
7	*				
	_*				
8					
9					
10					
11					
12	Variable S	Summary			
13					
14		Measurement	Frequency		
15	Role	Level	Count		
16					
17	ID	INTERVAL	1		
18	INPUT	INTERVAL	3		
19	INPUT	NOMINAL	3		
20	TARGET	BINARY	1		
21					
22					
23					
24					
25	Model Even	nts			
26					
27				Number	
28			Measurement	of	
29	Target	Event	Level	Levels	Order
	Label	-			
30					
31	IMP_Churn	1	BINARY	2	Descending
	Imputed C	Churn			

```
32
33
34
35
36 Predicted and decision variables
37
38 Туре
               Variable
                             Label
39
              IMP Churn
40 TARGET
                            Imputed Churn
             P_IMP_Churn1 Predicted: IMP_Churn=1
R_IMP_Churn1 Residual: IMP_Churn=1
41 PREDICTED
42 RESIDUAL
43 PREDICTED P IMP Churn0
                            Predicted: IMP Churn=0
            R_IMP_Churn0 Residual: IMP_Churn=0
44 RESIDUAL
45 FROM
             F IMP Churn
                            From: IMP_Churn
            I_IMP Churn
46 INTO
                            Into: IMP Churn
47
48
50 * Score Output
52
53
54
55 Variable Importance
56
57 Obs NAME
                               LABEL
                                             NRULES
                                                       ΙM
   PORTANCE VIMPORTANCE RATIO
58
59 1 IMP TotalSpent Imputed TotalSpent
                                                53
   1.00000 0.76677
                          0.76677
60 2 TotalPurchases
                                                28
  0.91418
              1.00000
                          1.09388
61 3 Age
                                                31
   0.65716 0.35566 0.54121
```

62	4 Membe	rshipLevel		12
	0.31802	0.10779 0.	.33893	
63				
64				
65	*			
	_*			
66	* Report Out	put		
67	*			
	_*			
68				
69				
70				
71				
72	Fit Statisti	CS		
73				
74	Target=IMP_C	hurn Target Label	L=Imputed Churn	
75				
76	Fit			
77	Statistics	Statistics Labe	el	Train
	Validation			
78				
79	_NOBS_	Sum of Frequenc	cies	17497.00
	7502.00			
80	_SUMW_	Sum of Case Wei	lghts Times Freq	34994.00
	15004.00			
81	_MISC_	Misclassificati	on Rate	0.22
	0.22			
82	_MAX_	Maximum Absolut	te Error	0.85
	0.85			
83	_SSE_	Sum of Squared	Errors	5953.63
	2564.89			
84	_ASE_	Average Squared	d Error	0.17
	0.17			
85	_RASE_	Root Average So	quared Error	0.41
	0.41			
86	_DIV_	Divisor for ASE		34994.00

15004.00 DFT Total Degrees of Freedom 17497.00 87 88 89 90 91 92 Classification Table 93 94 Data Role=TRAIN Target Variable=IMP Churn Target Label=Imput ed Churn 95 96 Target Outcome Frequency Total 97 Target Outcome Percentage Percentage Count Percentage 98 99 0 0 78.0253 99.5216 13521 77.2761 100 1 21.9747 97.3664 3808 0 21.7637 101 0 1 38.6905 0.4784 65 0.3715 61.3095 2.6336 102 1 103 0.5887 103 104 105 Data Role=VALIDATE Target Variable=IMP Churn Target Label=Im puted Churn 106

_ 0 0					
107			Target	Outcome	Frequency
	Tot	al			
108	Target	Outcome	Percentage	Percentage	Count
	Percen	tage			
109					
110	0	0	77.9135	99.6394	5803

	77.3527				
111	1	0	22.0865	98.0334	1645
	21.9275				
112	0	1	38.8889	0.3606	21
	0.2799				
113	1	1	61.1111	1.9666	33
	0.4399				
114					
115					
116					
117					
118	Event Classi	ification T	able		
119					
120	Data Role=TF	RAIN Target	=IMP_Churn 7	Target Label=Im	puted Churn
121					
122	False	True	False	True	
123	Negative	Negative	Positive	Positive	
124					
125	3808	13521	65	103	
126					
127					
128	Data Role=VA	ALIDATE Tar	get=IMP_Chu	rn Target Label	=Imputed Chu
	rn				
129					
130	False	True	False	True	
131	Negative	Negative	Positive	Positive	
132					
133	1645	5803	21	33	
134					
135					
136					
137					
138	Assessment S	Score Ranki	ngs		
139					
140	Data Role=TF	RAIN Target	. Variable=IN	MP_Churn Target	Label=Imput
	ed Churn				

				Mean		
143				Cumulative	90	Cum
	ulative	Number	of	Posterior		
144	Depth	Gain	Lift	Lift	Response	% R
	esponse	Observat	ions	Probability		
145						
146	5	92.1058	1.92106	1.92106	42.9403	4
	2.9403	875		0.39470		
147	10	56.7105	1.21315	1.56711	27.1169	3
	5.0286	875		0.27736		
148	15	40.1788	1.07115	1.40179	23.9429	3
	1.3333	875		0.24723		
149	20	31.7425	1.06434	1.31743	23.7905	2
	9.4476	875		0.23786		
150	25	27.0557	1.08308	1.27056	24.2095	2
	8.4000	875		0.23232		
151	30	23.8049	1.07551	1.23805	24.0402	2
	7.6734	875		0.22735		
152	35	21.8531	1.10129	1.21853	24.6165	2
	7.2371	874		0.22251		
153	40	19.3352	1.01713	1.19335	22.7352	2
	6.6743	875		0.21838		
154	45	17.3163	1.01167	1.17316	22.6133	2
	6.2230	875		0.21497		
155	50	15.4115	0.98270	1.15411	21.9657	2
	5.7972	875		0.21227		
156	55	13.4089	0.93386	1.13409	20.8739	2
	5.3496	875		0.21003		
157	60	11.5511	0.91117	1.11551	20.3669	2
	4.9343	875		0.20780		
158	65	10.1848	0.93791	1.10185	20.9646	2
	4.6290	875		0.20576		
159	70	8.8766	0.91852	1.08877	20.5311	2
	4.3365	874		0.20376		

160	75	7 1317	0 82707	1.07132	18 4870	2
	3.9465			0.20171	10.4070	2
				1.05556	18 3111	2
	3.5942			0.19956	10.0111	2
				1.04113	18.1117	2
	3.2717			0.19737	10.111	_
				1.02709	17.6235	2
	2.9579			0.19422		
				1.01873	19.4086	2
				0.18961		
165	100	0.0000	0.64378	1.00000	14.3901	2
		874				
166						
167						
168	Data Rol	e=VALIDATE	Target Va	riable=IMP_Churr	n Target Lab	el=Im
	puted Ch	urn				
169						
170						
± , o						
1,0				Mean		
171				Mean Cumulative	9	Cum
171		Number	of		96	Cum
171	ulative			Cumulative		
171 172	ulative Depth	Gain	Lift	Cumulative Posterior		
171 172	ulative Depth	Gain	Lift	Cumulative Posterior Lift		
171 172 173	ulative Depth esponse	Gain Observat 85.4906	Lift ions E	Cumulative Posterior Lift	Response	% R
171 172 173 174	ulative Depth esponse 5 1.4894	Gain Observat 85.4906 376	Lift ions E 1.85491	Cumulative Posterior Lift Probability 1.85491 0.38858	Response	% R
171 172 173 174	ulative Depth esponse 5 1.4894 10	Gain Observat 85.4906 376 50.6141	Lift ions F 1.85491 1.15645	Cumulative Posterior Lift Probability 1.85491 0.38858 1.50614	Response	% R
171 172 173 174	ulative Depth esponse 5 1.4894 10 3.6884	Gain Observat 85.4906 376 50.6141 375	Lift ions F 1.85491 1.15645	Cumulative Posterior Lift Probability 1.85491 0.38858 1.50614 0.27843	Response 41.4894 25.8667	% R 4
171 172 173 174 175	ulative Depth esponse 5 1.4894 10 3.6884 15	Gain Observat 85.4906 376 50.6141 375 34.4681	Lift ions F 1.85491 1.15645 1.02133	Cumulative Posterior Lift Probability 1.85491 0.38858 1.50614 0.27843 1.34468	Response 41.4894 25.8667	% R 4
171 172 173 174 175	ulative Depth esponse 5 1.4894 10 3.6884 15 0.0770	Gain Observat 85.4906 376 50.6141 375 34.4681 375	Lift ions F 1.85491 1.15645 1.02133	Cumulative Posterior Lift Probability 1.85491 0.38858 1.50614 0.27843 1.34468 0.24755	Response 41.4894 25.8667 22.8444	% R 4 3
171 172 173 174 175 176	ulative Depth esponse 5 1.4894 10 3.6884 15 0.0770 20	Gain Observat 85.4906 376 50.6141 375 34.4681 375 29.2164	Lift ions F 1.85491 1.15645 1.02133 1.13447	Cumulative Posterior Lift Probability 1.85491 0.38858 1.50614 0.27843 1.34468 0.24755 1.29216	Response 41.4894 25.8667 22.8444	% R 4 3
171 172 173 174 175 176	ulative Depth esponse 5 1.4894 10 3.6884 15 0.0770 20 8.9023	Gain Observat 85.4906 376 50.6141 375 34.4681 375 29.2164 375	Lift ions F 1.85491 1.15645 1.02133 1.13447	Cumulative Posterior Lift Probability 1.85491 0.38858 1.50614 0.27843 1.34468 0.24755 1.29216 0.23805	Response 41.4894 25.8667 22.8444 25.3752	% R 4 3 2
171 172 173 174 175 176	ulative Depth esponse 5 1.4894 10 3.6884 15 0.0770 20 8.9023 25	Gain Observat 85.4906 376 50.6141 375 34.4681 375 29.2164 375 21.3820	Lift ions F 1.85491 1.15645 1.02133 1.13447 0.90024	Cumulative Posterior Lift Probability 1.85491 0.38858 1.50614 0.27843 1.34468 0.24755 1.29216 0.23805 1.21382	Response 41.4894 25.8667 22.8444 25.3752	% R 4 3 2
171 172 173 174 175 176 177	ulative Depth esponse 5 1.4894 10 3.6884 15 0.0770 20 8.9023 25 7.1500	Gain Observat 85.4906 376 50.6141 375 34.4681 375 29.2164 375 21.3820 375	Lift ions F 1.85491 1.15645 1.02133 1.13447 0.90024	Cumulative Posterior Lift Probability 1.85491 0.38858 1.50614 0.27843 1.34468 0.24755 1.29216 0.23805 1.21382 0.23285	Response 41.4894 25.8667 22.8444 25.3752 20.1359	% R 4 3 3 2
171 172 173 174 175 176 177	ulative Depth esponse 5 1.4894 10 3.6884 15 0.0770 20 8.9023 25	Gain Observat 85.4906 376 50.6141 375 34.4681 375 29.2164 375 21.3820 375 15.7919	Lift ions F 1.85491 1.15645 1.02133 1.13447 0.90024 0.87826	Cumulative Posterior Lift Probability 1.85491 0.38858 1.50614 0.27843 1.34468 0.24755 1.29216 0.23805 1.21382 0.23285 1.15792	Response 41.4894 25.8667 22.8444 25.3752 20.1359	% R 4 3 3 2

180	35			1.15090	24.8000	2
	5.7426	375		0.22331		
181	40	11.7327	0.88224	1.11733	19.7333	2
	4.9917	375		0.21907		
182	45	10.8430	1.03723	1.10843	23.2000	2
	4.7927	375		0.21548		
183	50	8.7207	0.89615	1.08721	20.0444	2
	4.3180	375		0.21266		
184	55	6.3805	0.83035	1.06381	18.5727	2
	3.7945	376		0.21029		
185	60	6.2982	1.05392	1.06298	23.5733	2
	3.7761	375		0.20793		
186				1.04872	19.6267	2
				0.20592		
187	70				19.2727	2
				0.20392		
188	75			1.02240	18.8073	2
				0.20189		
				1.02294	23.0629	2
				0.19962		
190	85			1.01222	18.8038	2
	2.6407			0.19737		
				1.00514	19.7867	2
				0.19416		
	95			1.00777	23.6043	2
	2.5413					
193			0.85224	1.00000	19.0624	2
	2.3674			0.17610		
194						
195						
196						
197						
	Assessme	nt Score Di	stributio	n		
199	11000001110	110 00010 DI	~ 01120010			
1))						

²⁰⁰ Data Role=TRAIN Target Variable=IMP_Churn Target Label=Imput ed Churn

201					
202	Posterior	Number		Mean	
203	Probability	of	Number of	Posterior	
204	Range	Events	Nonevents	Probability	Percent
	age				
205					
206	0.70-0.75	11	1	0.70837	0.06
	86				
207	0.65-0.70	17	7	0.68030	0.13
	72				
208	0.60-0.65	24	14	0.62230	0.21
	72				
209	0.55-0.60	22	18	0.57141	0.22
	86				
210	0.50-0.55	29	25	0.52621	0.30
	86				
211	0.45-0.50	32	35	0.47713	0.38
	29				
212	0.40-0.45	30	27	0.42379	0.32
	58				
213	0.35-0.40	54	88	0.37366	0.81
	16				
214	0.30-0.35	121	213	0.31330	1.90
	89				
215	0.25-0.30	329	883	0.27452	6.92
	69				
216	0.20-0.25	2516	8851	0.21755	64.96
	54				
217	0.15-0.20	725	3414	0.19109	23.65
	55				
218	0.10-0.15	1	10	0.14686	0.06
	29				
219					
220					
221	D-+- D-1- 77	7 T T D 7 M D		TMD Characa Haraca	- Talaal — T

221 Data Role=VALIDATE Target Variable=IMP_Churn Target Label=Im
 puted Churn

222					
223	Posterior	Number		Mean	
224	Probability	of	Number o	f Posterior	
225	Range	Events	Nonevent	s Probabilit	y Percent
	age				
226					
227	0.70-0.75	3	2	0.71187	0.06
	66				
228	0.65-0.70	4	1	0.67444	0.06
	66				
229	0.60-0.65	7	8	0.62303	0.19
	99				
230	0.55-0.60	9	6	0.57684	0.19
0.04	99	1.0			0.10
231	0.50-0.55	10	4	0.52076	0.18
0.2.0	66	1 7	1 -	0 47067	0 40
232	0.45-0.50	17	15	0.47867	0.42
222	66 0.40-0.45	19	11	0.42803	0.39
233	99	19	11	0.42003	0.39
234	0.35-0.40	34	40	0.37317	0.98
254	64	Ji	90	0.37317	0.50
235	0.30-0.35	45	101	0.31655	1.94
	61			0.01000	
236	0.25-0.30	136	389	0.27486	6.99
	81				
237	0.20-0.25	1033	3847	0.21775	65.04
	93				
238	0.15-0.20	359	1398	0.19083	23.42
	04				
239	0.10-0.15	2	2	0.14837	0.05
	33				