The SAS System

The LOGISTIC Procedure

Model Information				
Data Set	WORK.SKILL			
Response Variable	LeagueIndex			
Number of Response Levels	7			
Model	cumulative logit			
Optimization Technique	Fisher's scoring			

Number of Observations Read	3395
Number of Observations Used	3338

Response Profile				
Ordered Value	Total Frequency			
1	1	167		
2	2	347		
3	3	553		
4	4	811		
5	5	804		
6	6	621		
7	7	35		
	8			

Probabilities modeled are cumulated over the lower Ordered Values.

Note: 57 observations were deleted due to missing values for the response or explanatory variables.

Note: 1 response level was deleted due to missing or invalid values for its explanatory, frequency, or weight variables.

Model Convergence Status
Convergence criterion (GCONV=1E-8) satisfied.

Score Test for the Proportional Odds Assumption						
Chi-Square DF Pr > ChiSq						
217.6706	90	<.0001				

Deviance and Pearson Goodness-of-Fit Statistics					
Criterion Value DF Value/DF Pr > ChiS					
Deviance	8929.0458	2E4	0.4465	1.0000	
Pearson	15623.0557	2E4	0.7812	1.0000	

Number of unique profiles: 3337

Model Fit Statistics					
Criterion	Intercept and Covariates				
AIC	11563.555	8977.046			
sc	11600.234	9123.761			
-2 Log L	11551.555	8929.046			

Testing Global Null Hypothesis: BETA=0						
Test Chi-Square DF Pr > ChiSq						
Likelihood Ratio	2622.5095	18	<.0001			
Score	1773.7723	18	<.0001			
Wald	1929.8811	18	<.0001			

Analysis of Maximum Likelihood Estimates						
Parameter		DF	Estimate	Standard Error	Wald Chi-Square	Pr > ChiSq
Intercept	1	1	-3.2700	0.6661	24.0995	<.0001
Intercept	2	1	-1.5246	0.6535	5.4421	0.0197
Intercept	3	1	-0.0529	0.6490	0.0066	0.9350
Intercept	4	1	1.6246	0.6496	6.2548	0.0124
Intercept	5	1	3.4951	0.6562	28.3728	<.0001
Intercept	6	1	7.6648	0.7037	118.6375	<.0001
Age		1	-0.0191	0.00809	5.5635	0.0183
HoursPerWeek		1	-0.0187	0.00292	41.3149	<.0001
TotalHours		1	2.596E-6	1.864E-6	1.9408	0.1636
APM		1	0.00429	0.00418	1.0489	0.3058
SelectByHotkeys		1	-99.4162	24.6039	16.3269	<.0001
AssignToHotkeys		1	-1540.7	199.0	59.9143	<.0001
UniqueHotkeys		1	-0.0615	0.0157	15.2581	<.0001
MinimapAttacks		1	-2355.8	234.1	101.2327	<.0001
MinimapRightClicks		1	-64.3688	102.8	0.3919	0.5313

NumberOfPACs	1	-657.4	127.8	26.4733	<.0001
GapBetweenPACs	1	0.0204	0.00297	47.2831	<.0001
ActionLatency	1	0.0371	0.00424	76.4902	<.0001
ActionsInPAC	1	-0.1034	0.0616	2.8155	0.0934
TotalMapExplored	1	0.0107	0.00590	3.2917	0.0696
WorkersMade	1	-407.2	71.9631	32.0252	<.0001
UniqueUnitsMade	1	0.0470	0.0224	4.3913	0.0361
ComplexUnitsMade	1	-384.3	391.0	0.9663	0.3256
ComplexAbilitiesUsed	1	-128.8	159.4	0.6532	0.4190

Odds Ratio Estimates					
Effect	Point Estimate	95% Wald Confidence Limits			
Age	0.981	0.966	0.997		
HoursPerWeek	0.981	0.976	0.987		
TotalHours	1.000	1.000	1.000		
APM	1.004	0.996	1.013		
SelectByHotkeys	<0.001	<0.001	<0.001		
AssignToHotkeys	<0.001	<0.001	<0.001		
UniqueHotkeys	0.940	0.912	0.970		
MinimapAttacks	<0.001	<0.001	<0.001		
MinimapRightClicks	<0.001	<0.001	>999.999		
NumberOfPACs	<0.001	<0.001	<0.001		
GapBetweenPACs	1.021	1.015	1.027		
ActionLatency	1.038	1.029	1.046		
ActionsInPAC	0.902	0.799	1.018		
TotalMapExplored	1.011	0.999	1.022		
WorkersMade	<0.001	<0.001	<0.001		
UniqueUnitsMade	1.048	1.003	1.095		
ComplexUnitsMade	<0.001	<0.001	>999.999		
ComplexAbilitiesUsed	<0.001	<0.001 >999.99			

Association of Predicted Probabilities and Observed Responses				
Percent Concordant	82.6	Somers' D	0.654	
Percent Discordant	17.2	Gamma	0.656	
Percent Tied	0.3	Tau-a	0.528	
Pairs	4498567	С	0.827	