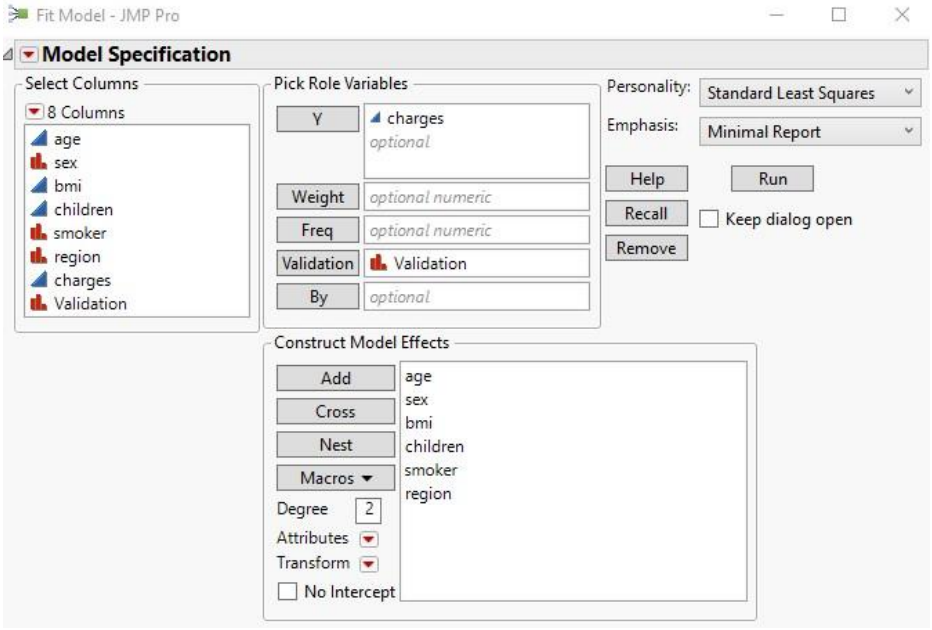
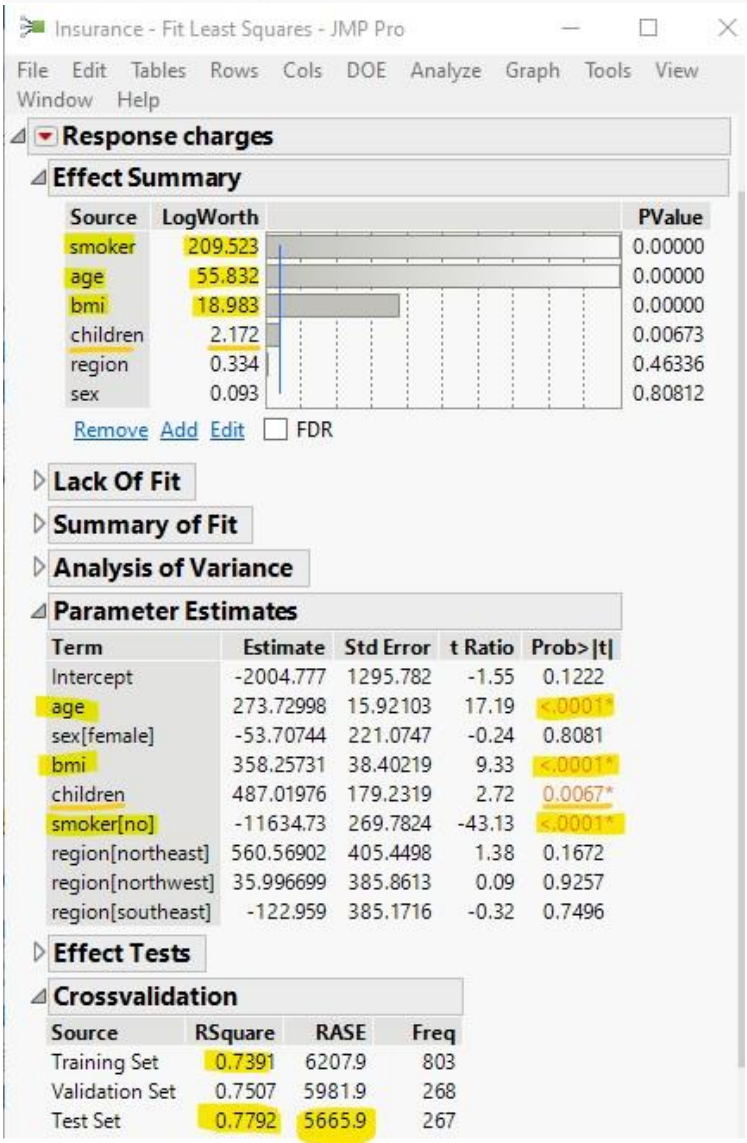
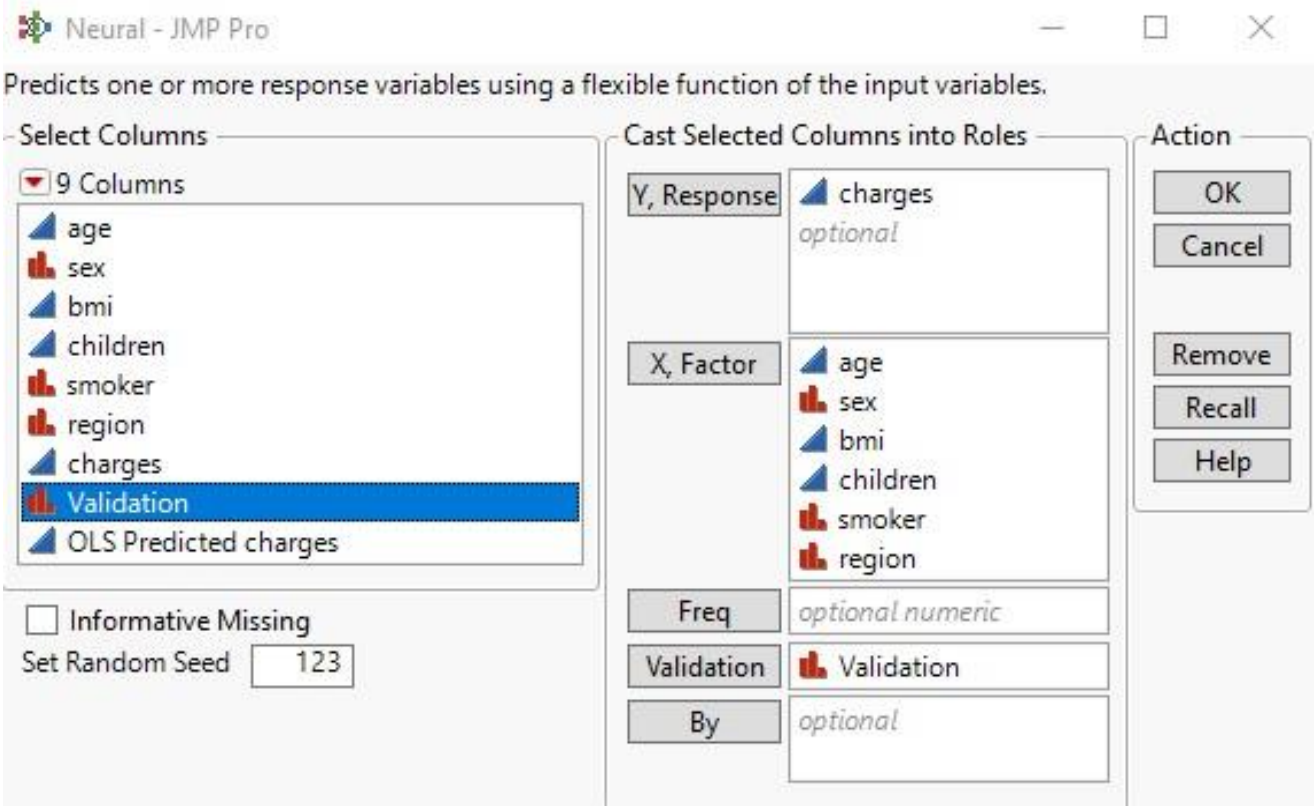
Boosted NNs and Medical Costs

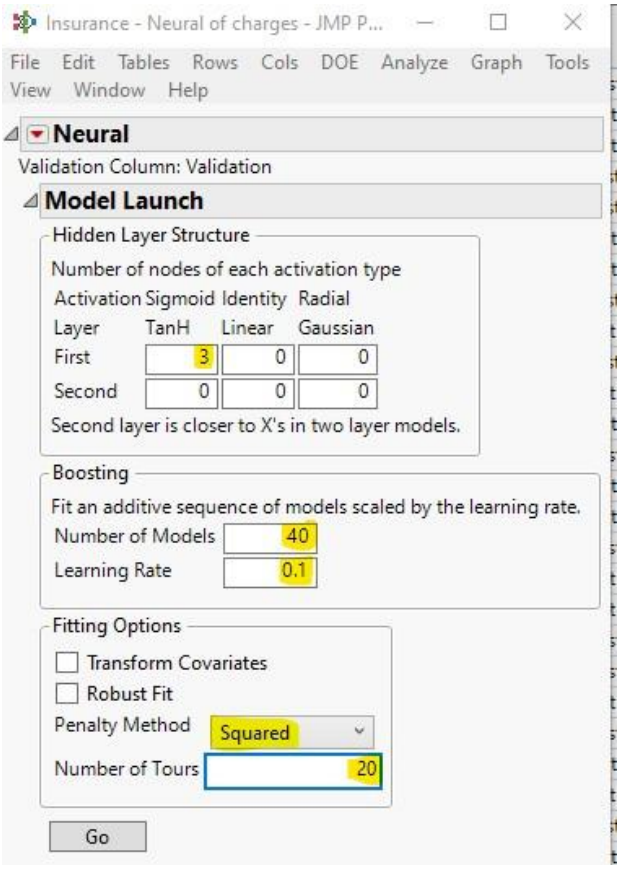




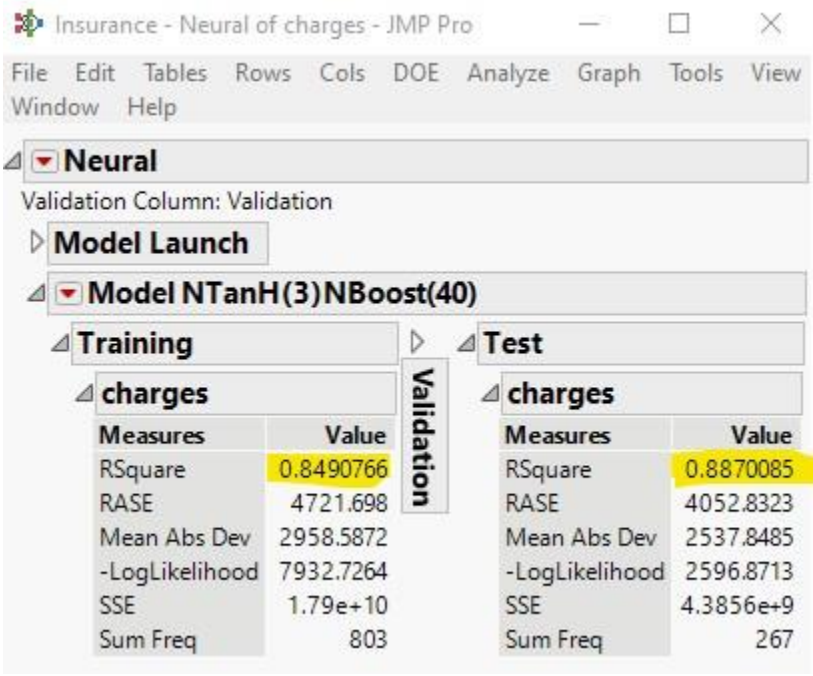
Boosted NNs and Medical Costs



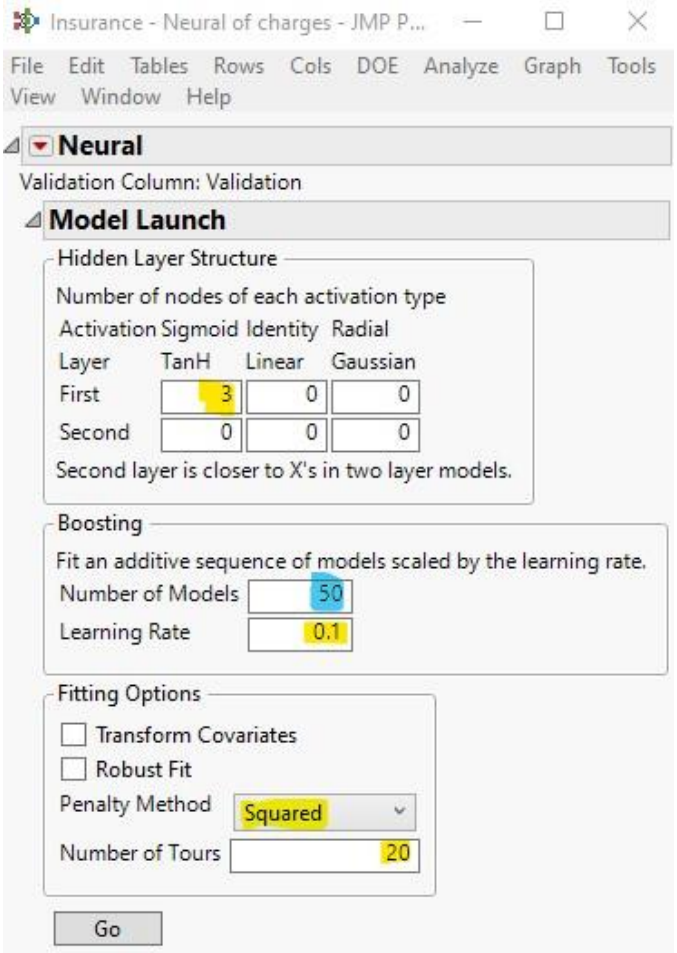
Boosted NNs and Medical Costs

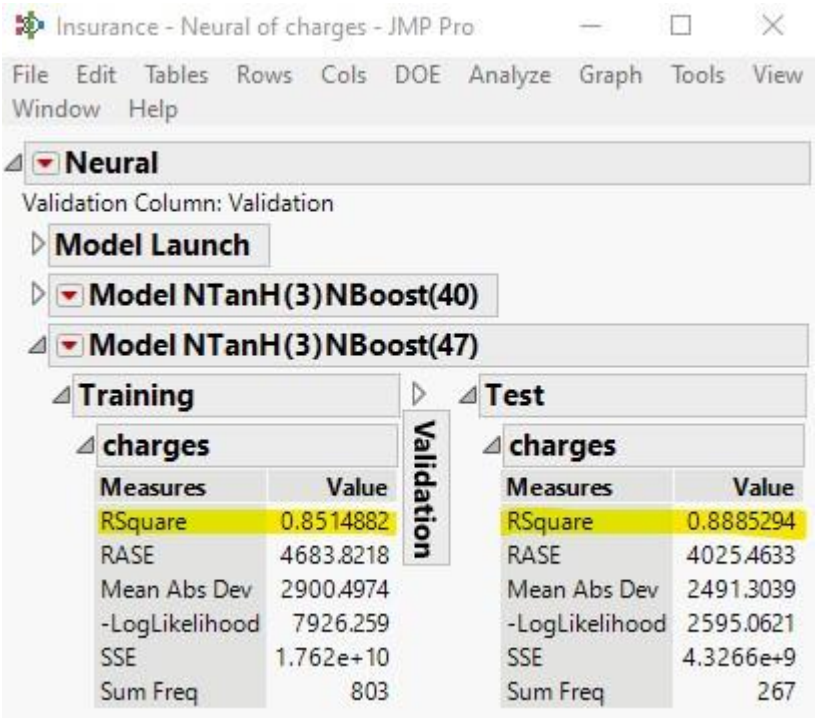


Initial setup was for 40 models but the results came back with 40 models, so the model count was increased by 10 models until the number of models in the results were less than the number of models in the setup.

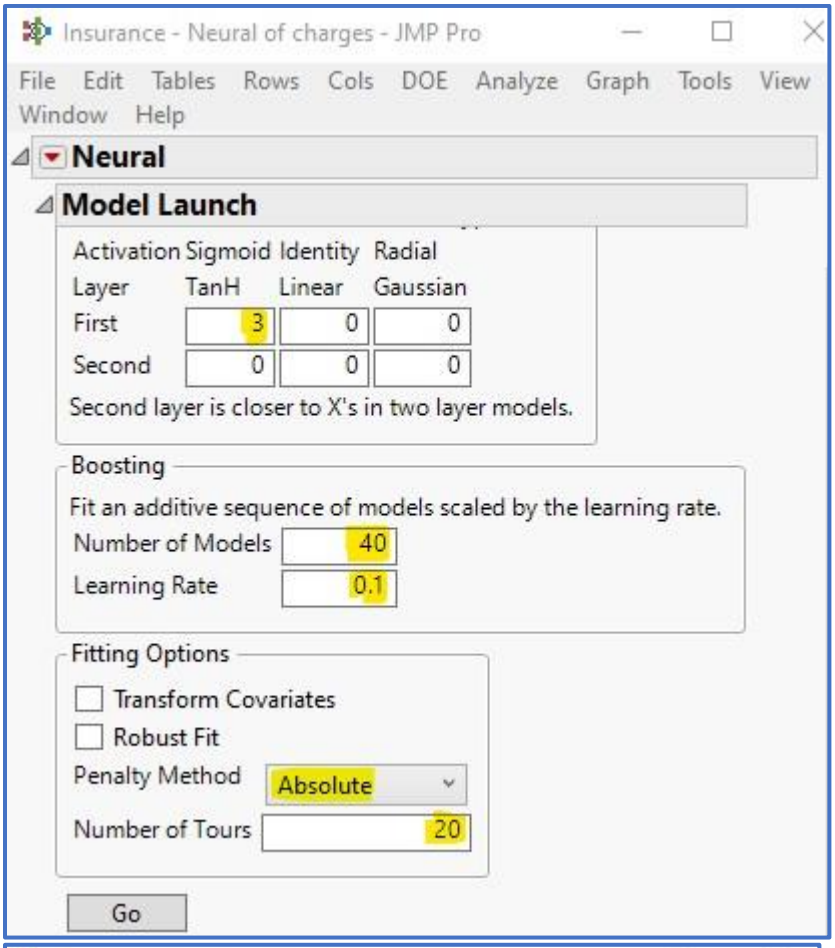


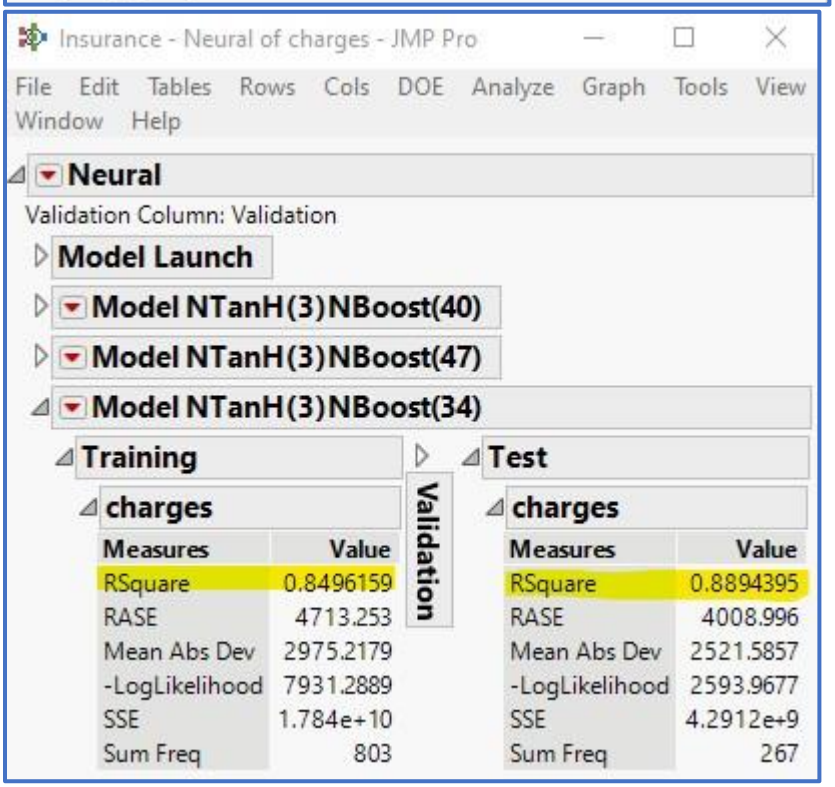
Boosted NNs and Medical Costs



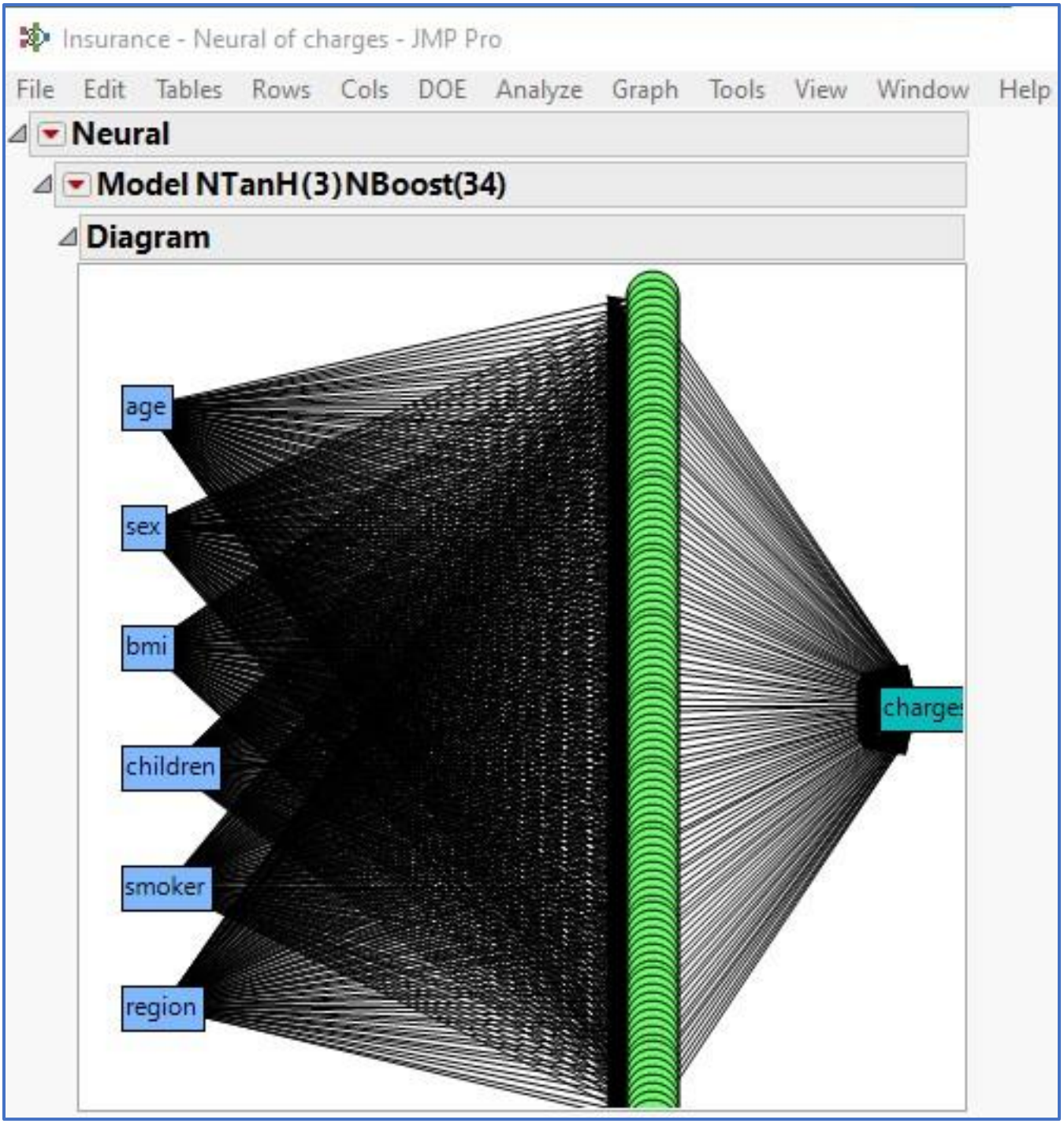


Boosted NNs and Medical Costs





Boosted NNs and Medical Costs



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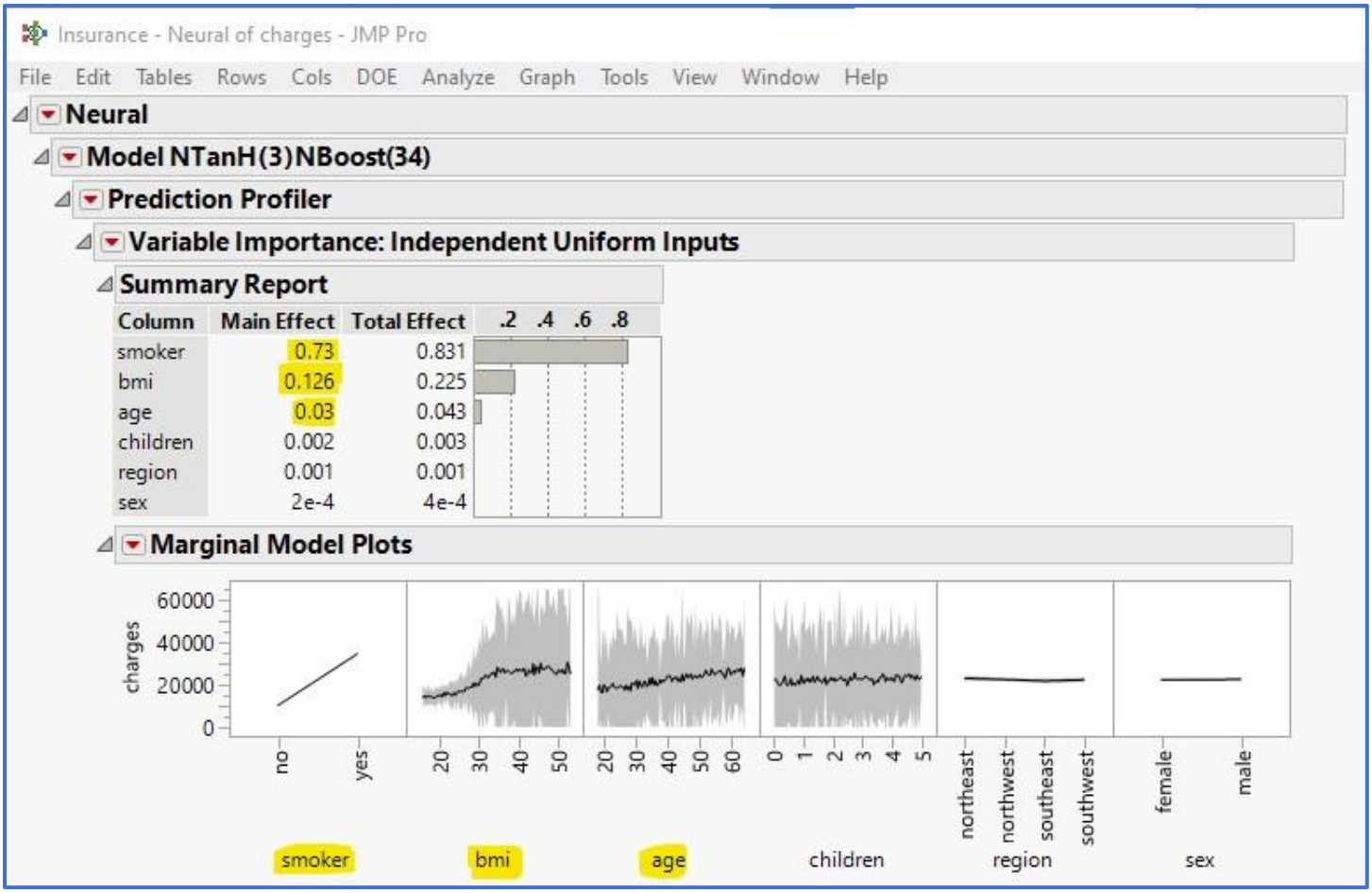

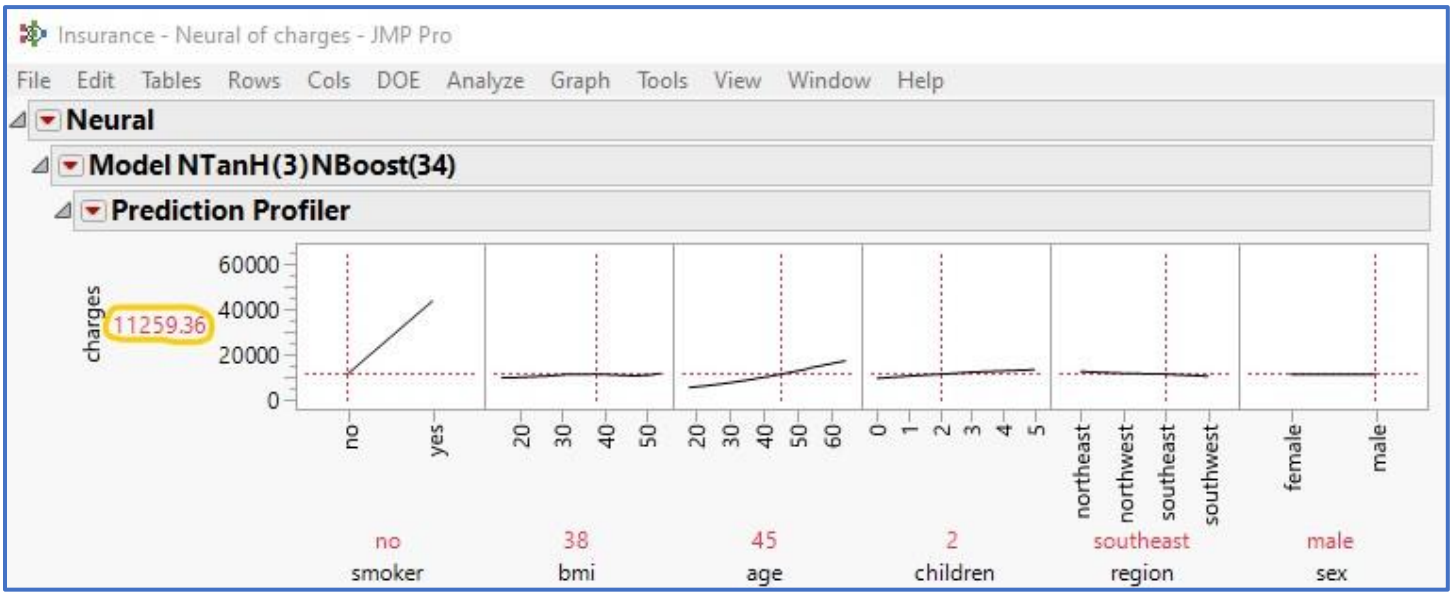

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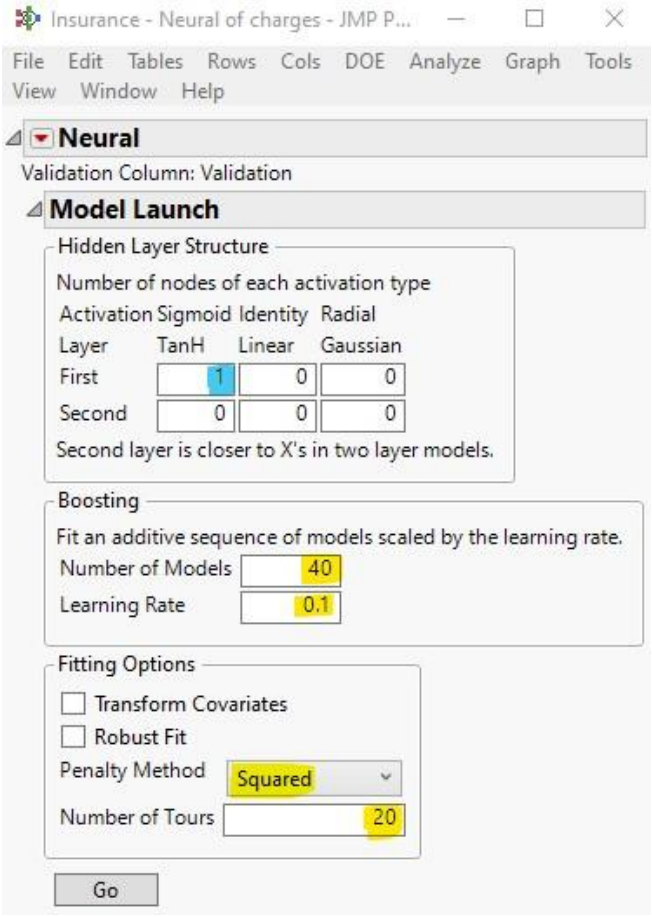

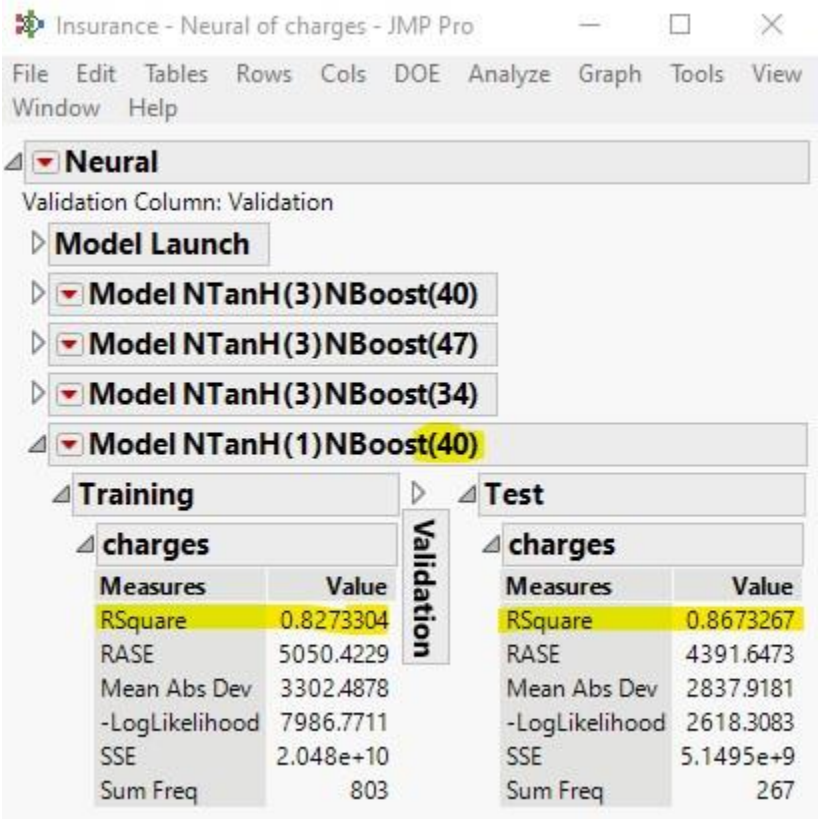

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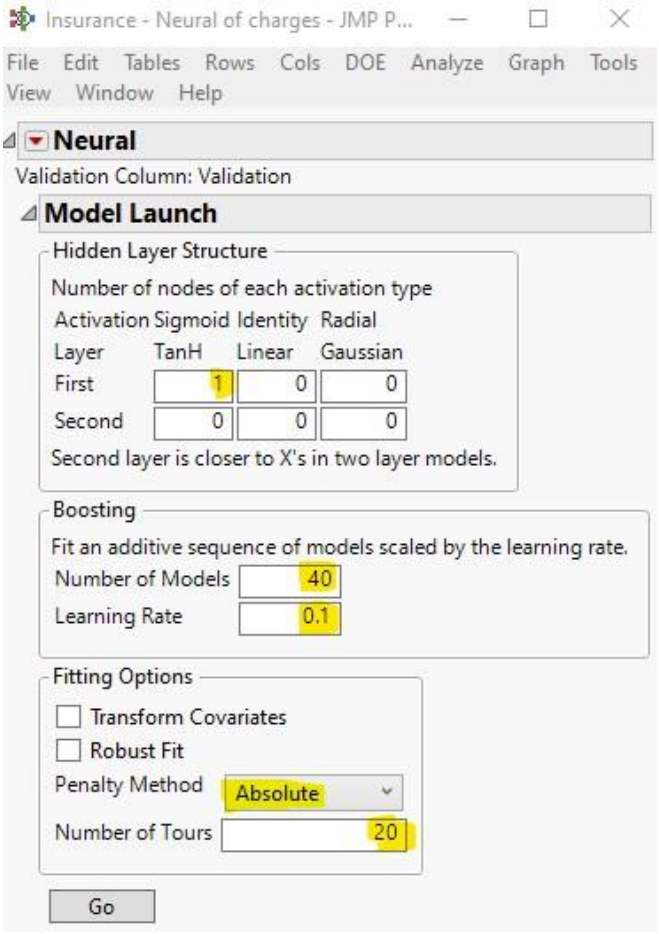

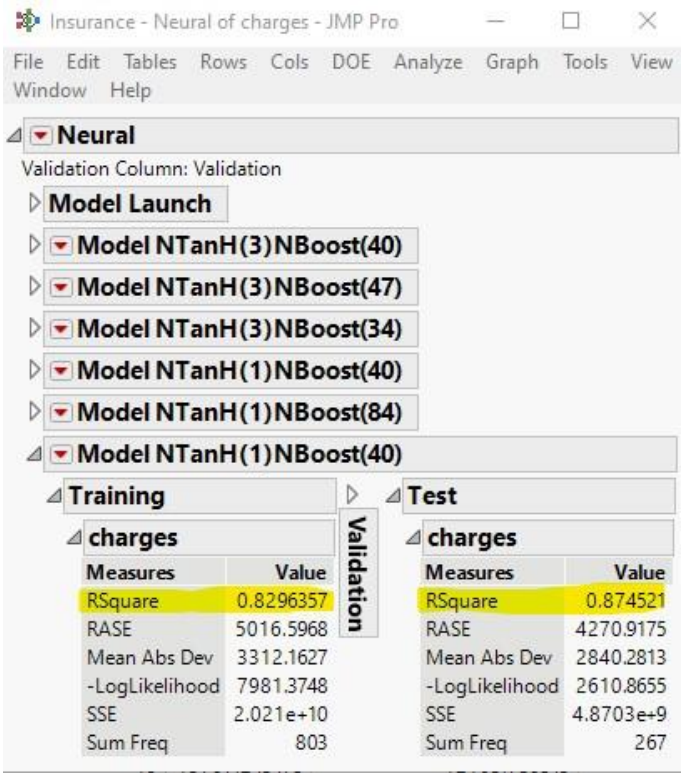

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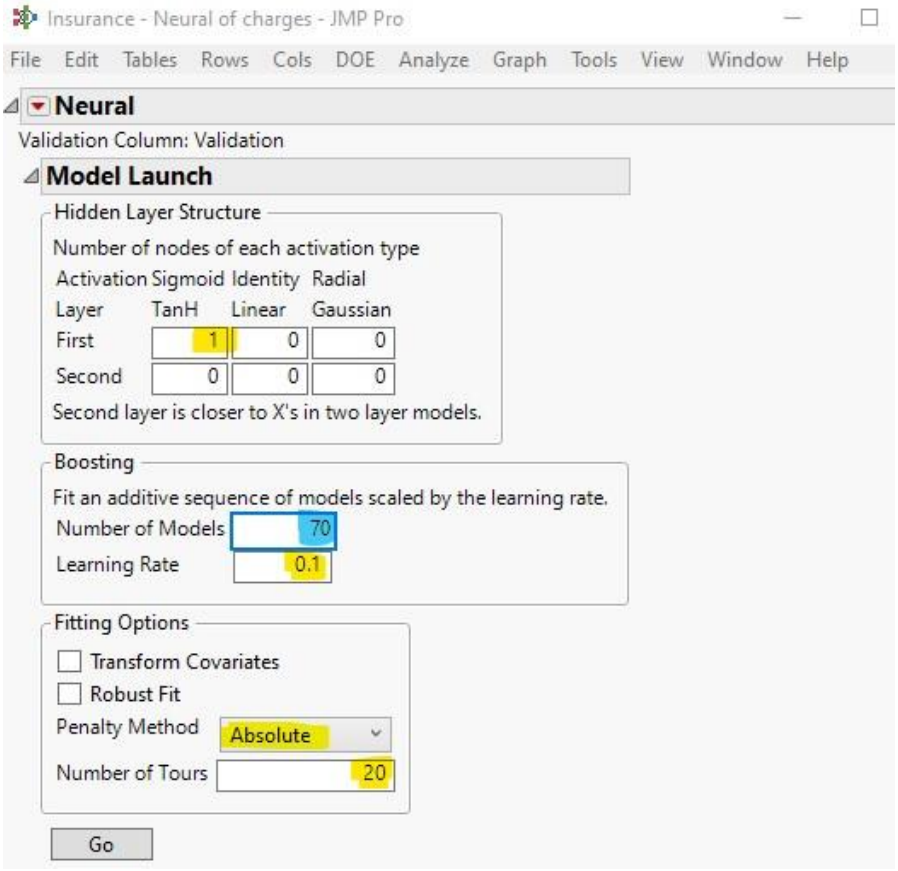
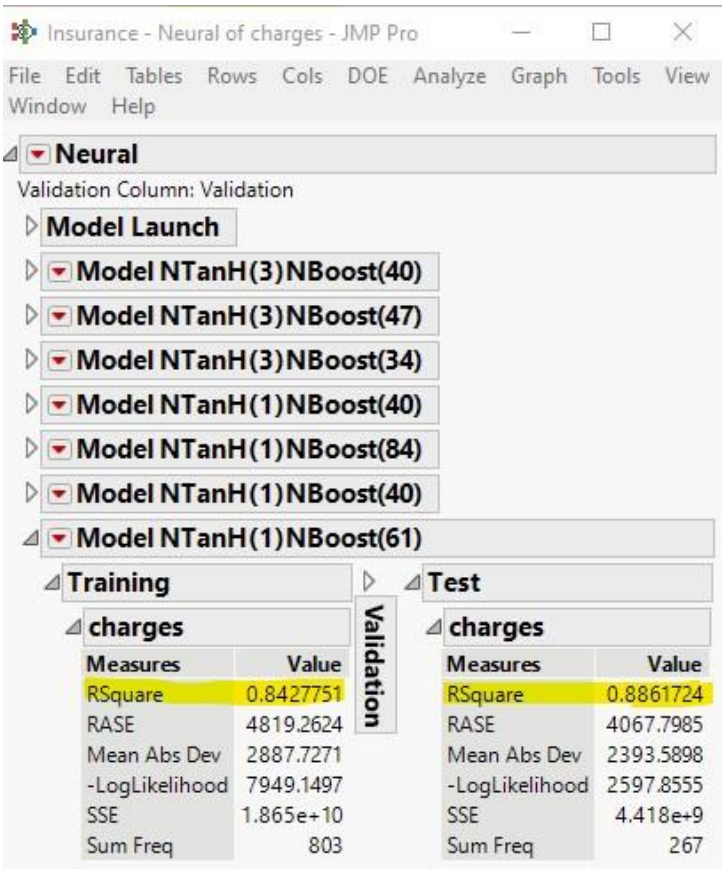
Boosted NNs and Medical Costs





Boosted NNs and Medical Costs

Insurance - Model Comparison 3 - JMP Pro

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Model Comparison

Predictors

Measures of Fit for charges

Validation	Predictor	Creator	.2 .4 .6 .8	RSquare	RASE	AAE	Freq
Training	NTanH(3) 40Mod 10% Sq 20x Predicted charges	Neural		0.8491	4721.7	2958.6	803
Training	NTanH(3) 47Mod 10% Sq 20x Predicted charges	Neural		0.8515	4683.8	2900.5	803
Training	NTanH(3) 34Mod 10% Abs 20x Predicted charges	Neural		0.8496	4713.3	2975.2	803
Validation	NTanH(3) 40Mod 10% Sq 20x Predicted charges	Neural		0.8516	4614.8	2693.8	268
Validation	NTanH(3) 47Mod 10% Sq 20x Predicted charges	Neural		0.8532	4590.1	2642.0	268
Validation	NTanH(3) 34Mod 10% Abs 20x Predicted charges	Neural		0.8533	4587.8	2702.0	268
Test	NTanH(3) 40Mod 10% Sq 20x Predicted charges	Neural		0.8870	4052.8	2537.8	267
Test	NTanH(3) 47Mod 10% Sq 20x Predicted charges	Neural		0.8885	4025.5	2491.3	267
Test	NTanH(3) 34Mod 10% Abs 20x Predicted charges	Neural		0.8894	4009.0	2521.6	267

Insurance - Model Comparison 2 - JMP Pro

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Model Comparison

Predictors

Measures of Fit for charges

Validation	Predictor	Creator	.2 .4 .6 .8	RSquare	RASE	AAE	Freq
Training	NTanH(1) 40Mod 10% Sq 20x Predicted charges	Neural		0.8273	5050.4	3302.5	803
Training	NTanH(1) 84Mod 10% Sq 20x Predicted charges	Neural		0.8423	4826.0	3068.2	803
Training	NTanH(1) 40Mod 10% Abs 20x Predicted charges	Neural		0.8296	5016.6	3312.2	803
Training	NTanH(1) 61Mod 10% Abs 20x Predicted charges	Neural		0.8428	4819.3	2887.7	803
Validation	NTanH(1) 40Mod 10% Sq 20x Predicted charges	Neural		0.8355	4858.2	2951.5	268
Validation	NTanH(1) 84Mod 10% Sq 20x Predicted charges	Neural		0.8476	4676.6	2791.1	268
Validation	NTanH(1) 40Mod 10% Abs 20x Predicted charges	Neural		0.8361	4849.8	3019.5	268
Validation	NTanH(1) 61Mod 10% Abs 20x Predicted charges	Neural		0.8463	4695.9	2578.9	268
Test	NTanH(1) 40Mod 10% Sq 20x Predicted charges	Neural		0.8673	4391.6	2837.9	267
Test	NTanH(1) 84Mod 10% Sq 20x Predicted charges	Neural		0.8798	4179.4	2635.4	267
Test	NTanH(1) 40Mod 10% Abs 20x Predicted charges	Neural		0.8745	4270.9	2840.3	267
Test	NTanH(1) 61Mod 10% Abs 20x Predicted charges	Neural		0.8862	4067.8	2393.6	267

Insurance - Model Comparison - JMP Pro

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Model Comparison

Predictors

Measures of Fit for charges

Validation	Predictor	Creator	.2 .4 .6 .8	RSquare	RASE	AAE	Freq
Training	NTanH(1) 61Mod 10% Abs 20x Predicted charges	Neural		0.8428	4819.3	2887.7	803
Training	NTanH(3) 34Mod 10% Abs 20x Predicted charges	Neural		0.8496	4713.3	2975.2	803
Training	OLS Predicted charges	Fit Least Squares		0.7391	6207.9	4447.6	803
Validation	NTanH(1) 61Mod 10% Abs 20x Predicted charges	Neural		0.8463	4695.9	2578.9	268
Validation	NTanH(3) 34Mod 10% Abs 20x Predicted charges	Neural		0.8533	4587.8	2702.0	268
Validation	OLS Predicted charges	Fit Least Squares		0.7507	5981.9	4097.9	268
Test	NTanH(1) 61Mod 10% Abs 20x Predicted charges	Neural		0.8862	4067.8	2393.6	267
Test	NTanH(3) 34Mod 10% Abs 20x Predicted charges	Neural		0.8894	4009.0	2521.6	267
Test	OLS Predicted charges	Fit Least Squares		0.7792	5665.9	4019.3	267