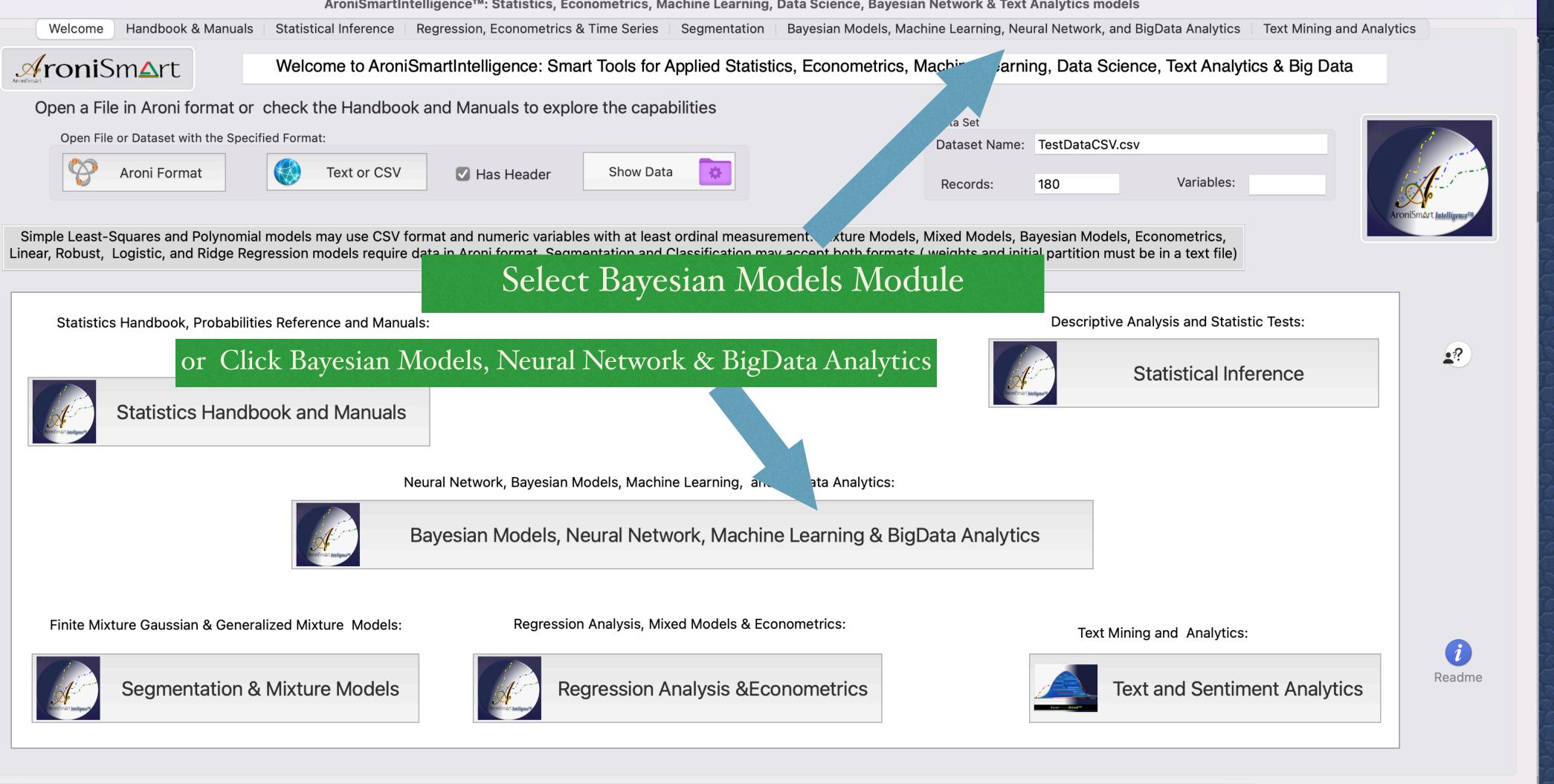




roniSmartIntelligence
Machine Learning
DataScience
Applied Statistics
Econometrics
Text Analytics
Bayesian Models
Neural Networks

AroniSmartIntelligenceTM Tutorial
Part V: Bayesian Models Module



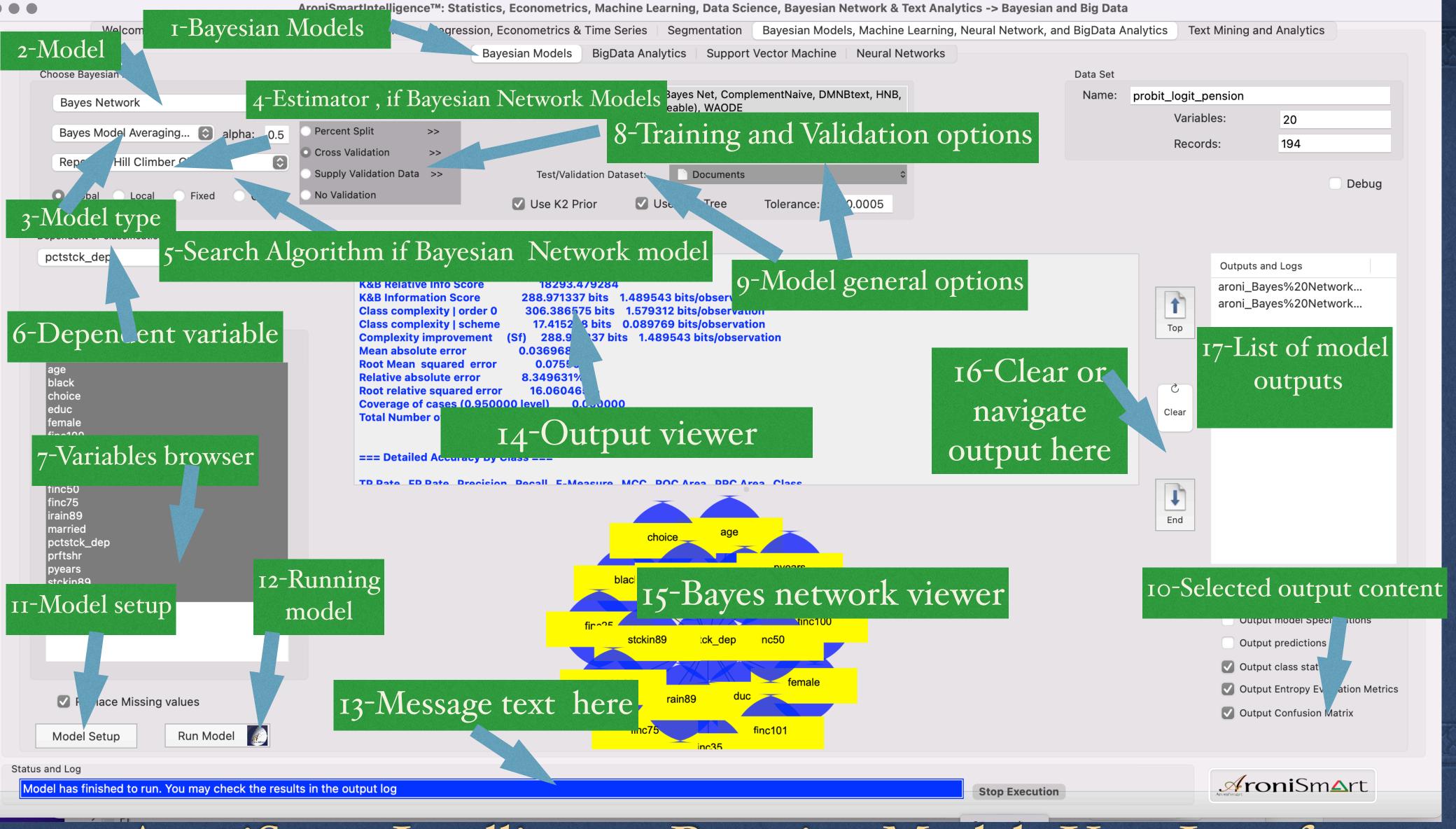
Status and Log

Stop Execution



AroniSmartIntelligence Bayesian Models Analysis

Processing Text File/Unstructured dataset: choosing the directory to process



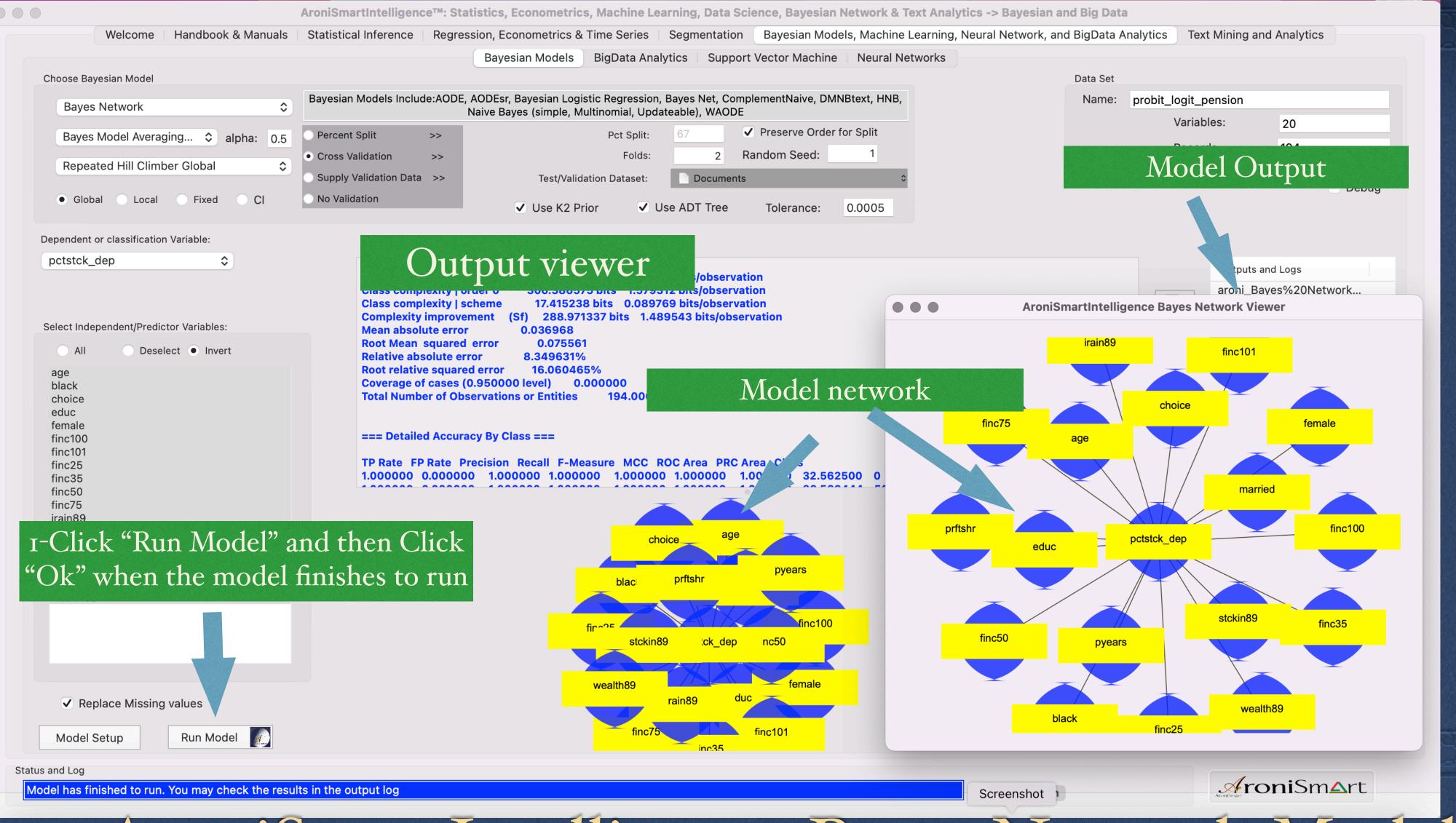
AroniSmartIntelligence Bayesian Models User Interface

Click Bayesian Models tab from AroniSmartIntelligenceTM interface to access the module

AroniSmartIntellige	ence™: Statistics, Econometrics, I	Machine Learning, Da	ata Science, Bayesia	nn Network & Text Analytics -> Bayesian an	d Big Data		
Welcome Handbook & Manuals Statistical Inference	e Regression, Econometrics & Tir	me Series Segment	ation Bayesian Mo	odels, Machine Learning, Neural Network, and	BigData Analytics	Text Mining and A	Analytics
	Ravesian Models R			Neural Networks			
Choose Bayesian Model		Select Mo	del	Hoyt LIND	Data Set		
Bayes Network \$\times \text{ayesian Models Inc.}	Naive Bayes (simple, Multi	nomial, Updateable), W	AODE	text, HNB,		git_pension /ariables:	00
Bayes Model Averaging \$ alpha: 0.5 Percent Split	0.1	C7	Proserve Orde	er for Split			20
Repeated Hill Climber Global Cross Validat	2-Select mo	odel type	Seed:	1	ŀ	lecords:	194
Global Local Fixed No Validation No Validation	3-Select estir	mator and	d search	algorithm			Debug
Dependent or classification Variable:	o antonomical						
	e categorical					Outputs and	Logs
dependen	nt variable	Bayesian M	odels	11: 1- "O1-/Cantinus	"		
Select Independent/Predictor Variables:	< Cancel Rese	et 🕝 C Ok/C	Contir 8-C	Click "Ok/Continue			
All Deselect Invert	Bayesian Model Options: Only rele	evant options are enabled	I. Use tooltip for more in	formation on an option	То		
age	Score Type:	Cross Validati	on Type:	✓ Initialize as Naive			
black choice	<u> </u>	LOO-	-CV	Markov Blanket	2		
educ female	Critical Value:	7-Set m	odel attri	ibutes	Cle	ar	
finc100	Frequency Limit:						
5-Select regressors	Population Size:	10 M-Estimat	te Weight: 1.0	✓ Use Arc Reversal			
5-Select regressors (independent attributes)	Smoothing Parameter:	1.0 Descendent	t Pop Size: 100	Multinomial Word			
(macpendent attributes)	Llamana and an Danier			Random Order	En		
married pctstck_dep	Hyperparameter Range:	R:0.1 - 517, 26		Use Mutation			
prftshr pyears	Hyperparameter Selection:	<u> </u>		✓ Use Prob			
	Hyperparameter Value:	.33	Threshold: 0.5	Use Tournament Selection			
6-Click "Model Setup"	maxCardinality:	Tempera 2	ture Start: 10	Use Crossover Normalize Data		Output n	nodel Specifications
	Prior Class	<u> </u>	delta: .997				redictions
	Nr of Good Operations:	5	TabuList: 5	Normalize Word Weights Use Kernel Estimator			lass statistics
	Nr of Look Ahead Steps:	2	Seed: 1	Use Supervised Discretization			ntropy Evaluation Metrics
ce Missing values				Odd Supervised Bissistization		✓ Output 0	onfusion Matrix
Model etup Run Model							
Status and Log Loading data finished- Please Check the data and the variables						Aror	ni Sm △ rt
				Screenshot		Aronismart	

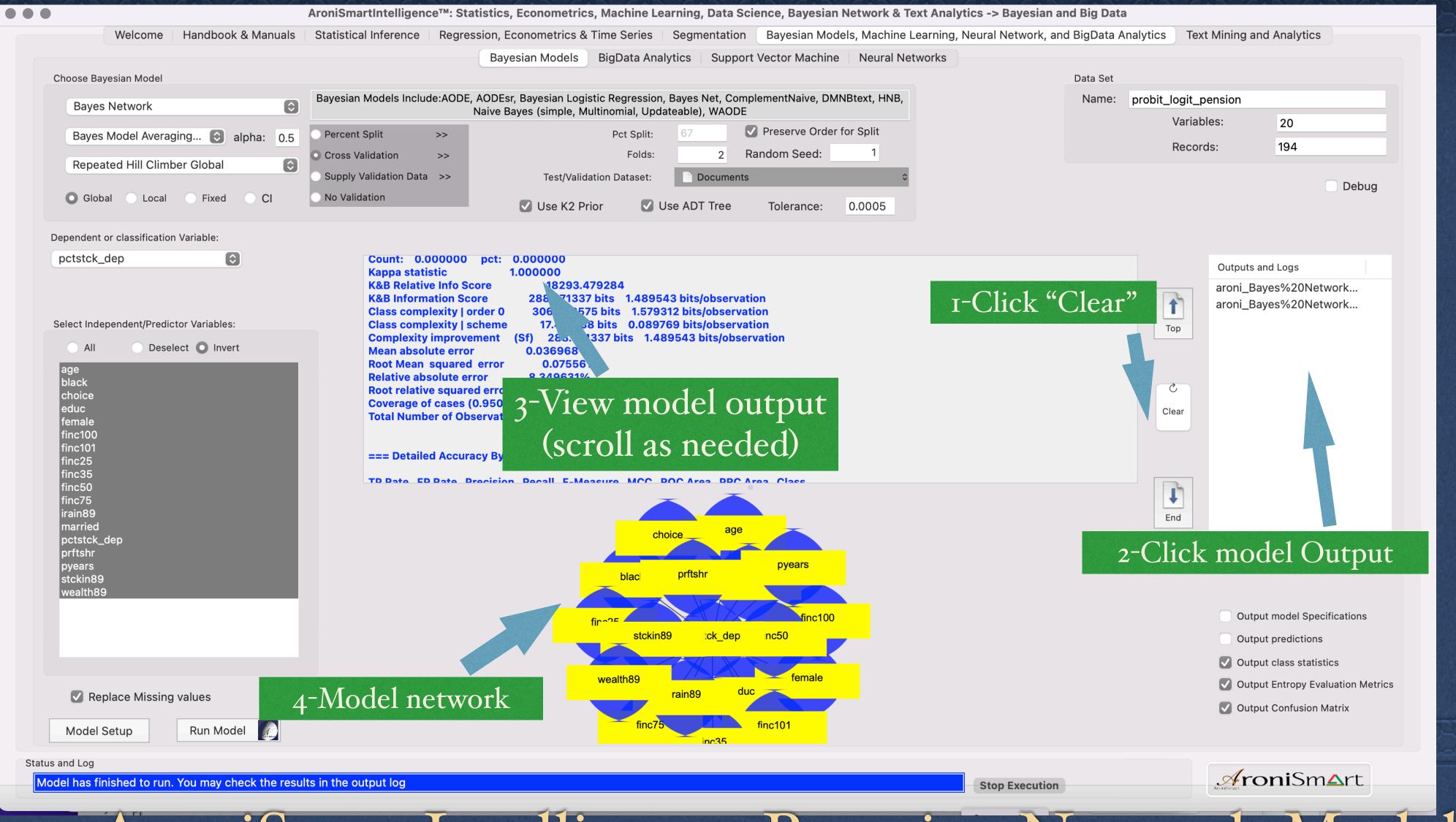
AroniSmartIntelligence Bayesian Network Model

Using AroniSmartIntelligenceTM: Setting up a Bayesian Network Model



AroniSmartIntelligence Bayes Network Model

Using AroniSmartIntelligenceTM: Running a Bayesian Network Model



AroniSmartIntelligence Bayesian Network Model

Using AroniSmartIntelligenceTM: Viewing Results of a Bayesian Network Model