NurulAiniLativah_0000052204_IS529_AL_UAS

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NU FURNITURE

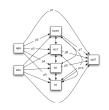












MAPS

SALES

CUSTOMERS

SubCategory

PATH ANALYSIS

Region



Customers

CUSTOMER All About Customer Nu Furniture

Region by Country





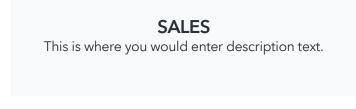
Simplylode	
	294M
A	
man	

Customer Aaron Bergm Aaron Hawkins Aaron Smayling Adam Bellavance Adam Hart Adam Shillingsburg Adrian Barton Adrian Hane Adrian Shami Aimee Bixby Alan Barnes

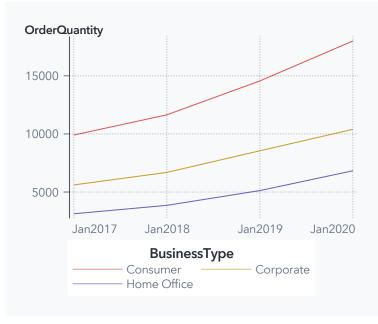
ShippingCost 911K

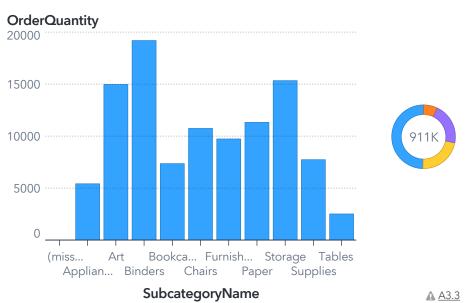


Sales









Art

Bookcases Supplies Paper

Binders

Storage

▲ A3.1

Appliances

Chairs Furnishings

▲ A3.2

SubCategory

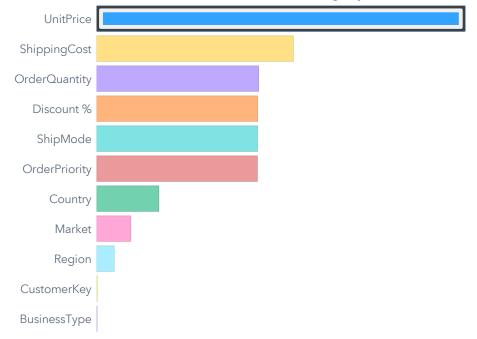
What are the characteristics of SubcategoryName?

Binders ~

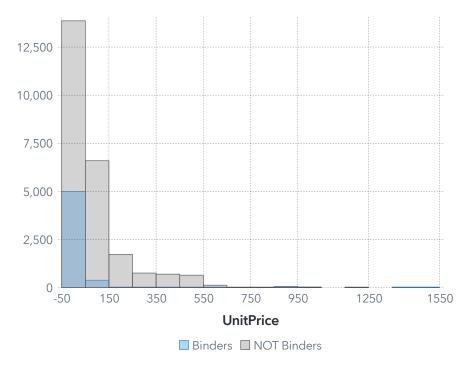
Binders is the most common value representing 17.15% (5.5K of 32K) of SubcategoryName. The three most related factors are UnitPrice, ShippingCost, and OrderQuantity.

Binders, Storage and Art are much more common than all other SubcategoryName values, together representing 45.50%. Tables is much less common than all other SubcategoryName values, representing 2.21%.

What factors are most related to SubcategoryName?



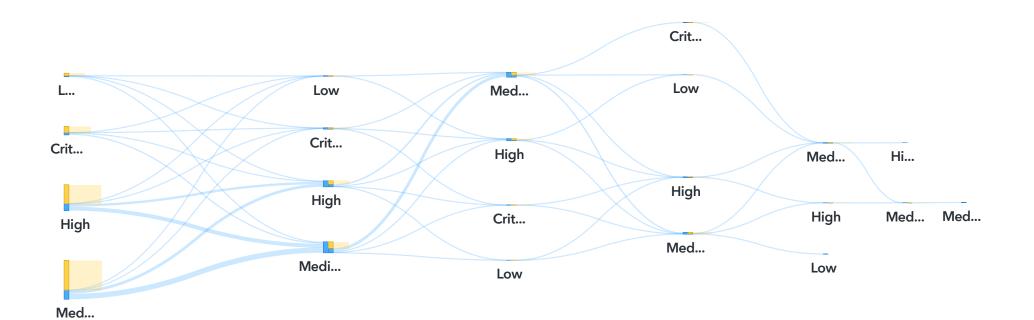
What is the relationship between SubcategoryName and UnitPrice?



The average UnitPrice is 27 when SubcategoryName is Binders, with a minimum of 1.7 and a maximum of 1.9K. The average UnitPrice is 91 when SubcategoryName is NOT Binders, with a minimum of 1.4 and a maximum of 1.6K. Average UnitPrice is 79, and it ranges from 1.4 to 1.9K.

Path Analysis







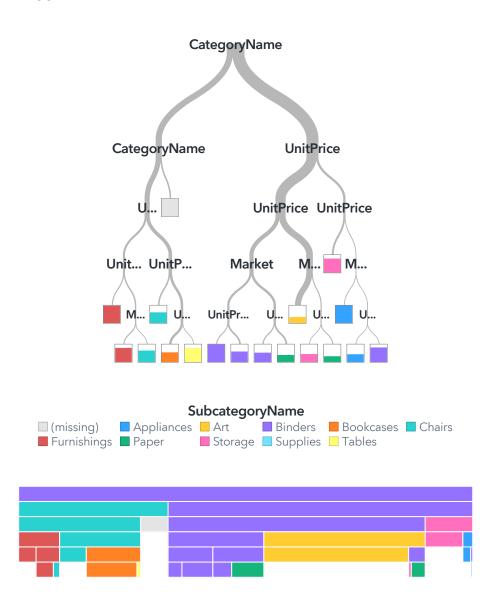
Path Frequency by Link

▲ <u>A4.1</u>

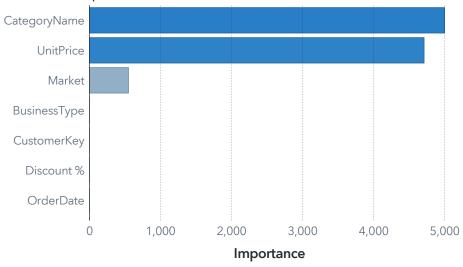
Decision Tree

Decision Tree SubcategoryName Event: Bookcases Fit: KS (Youden) 0.8823 Observations: 31,929 of 31,929

Tree

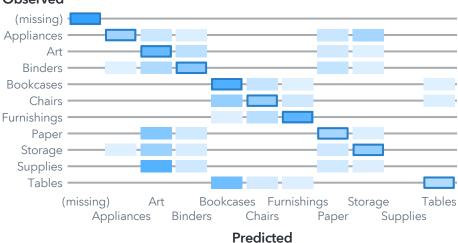


Variable Importance



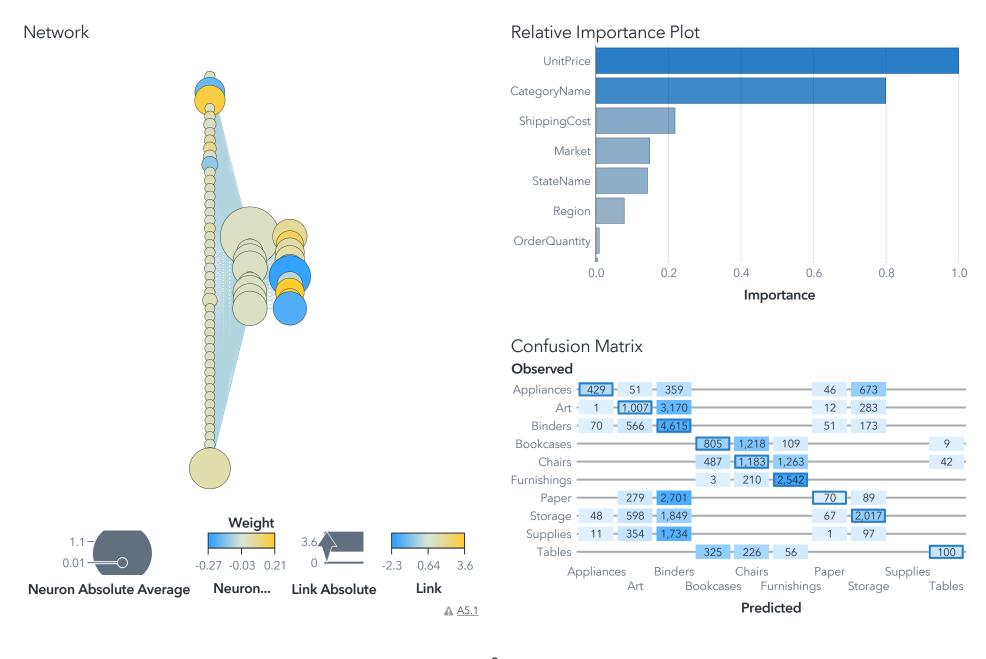
Confusion Matrix

Observed



Neural Networrk

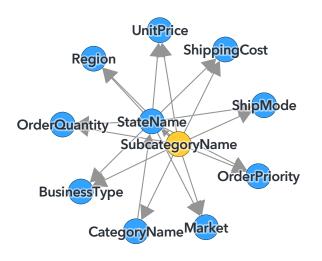
Neural Network SubcategoryName Event: Bookcases Fit: KS (Youden) 0.8484 Observations: 29,999 of 31,929



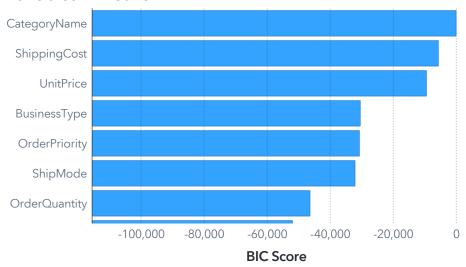
Bayesian Network

Bayesian Network SubcategoryName Event: Bookcases Fit: KS (Youden) 0.8259 Observations: 29,999 of 31,929

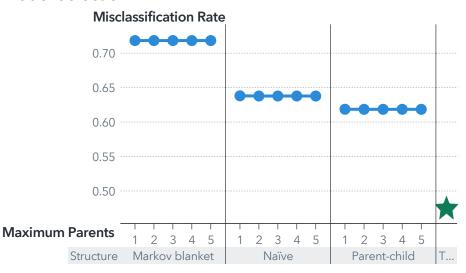
Network



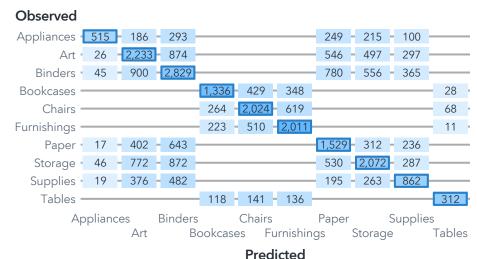
Variables in Network



Model Selection

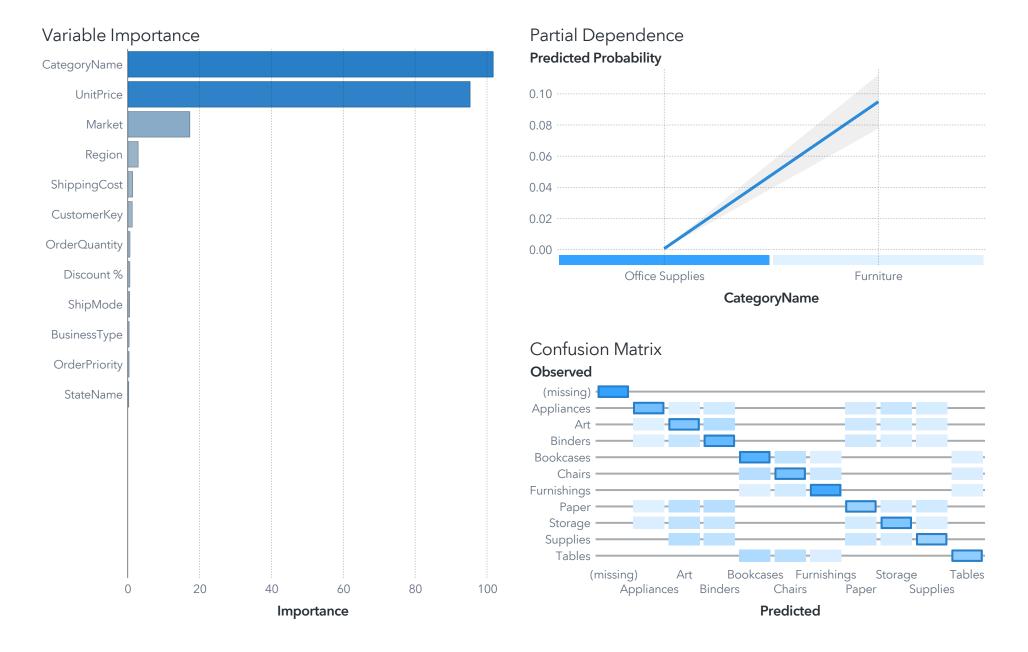


Confusion Matrix



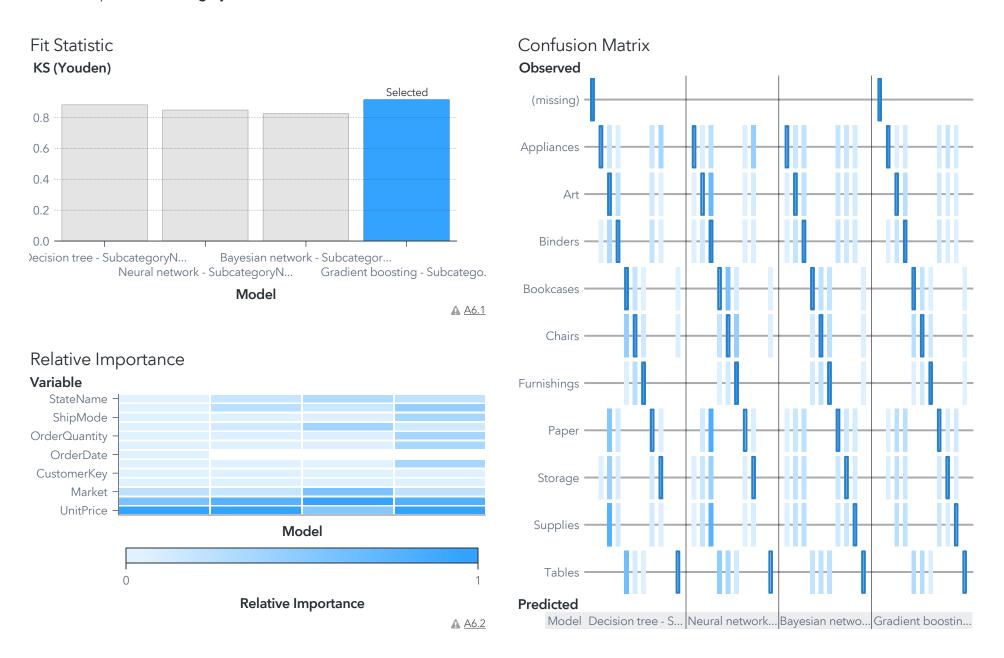
Gradient Bosting

Gradient Boosting SubcategoryName Event: Bookcases Fit: KS (Youden) 0.9134 Observations: 31,929 of 31,929



Model Comparison

Model Comparison SubcategoryName Event: Bookcases



Appendix

A1.1 All Region

Alternative text: OrderQuantity by Country

Warnings: Some features may not be displayed on the map because of missing location information in the data.

No matches were found for supplied geography data items: Cote d'Ivoire, Democratic Republic of the Congo, Hong Kong, Macedonia, Myanmar (Burma), Republic of the Congo, Vietnam.

Filters: Region IN { ALL }

A2.1 Region by Country

Warnings: Some regions in the map have multiple classification values. Only the first value is displayed.

No matches were found for supplied geography data items: Cote d'Ivoire, Democratic Republic of the Congo, Hong Kong, Macedonia, Myanmar (Burma), Republic of the Congo, Vietnam.

A3.1 Word cloud - SubcategoryName 1

Warnings: The word cloud contains missing or invalid values that cannot be properly displayed.

A3.2 Region by Country

Warnings: Some regions in the map have multiple classification values. Only the first value is displayed.

No matches were found for supplied geography data items: Cote d'Ivoire, Democratic Republic of the Congo, Hong Kong, Macedonia, Myanmar (Burma), Republic of the Congo, Vietnam.

A3.3 Pie - ShipMode 2

Warnings: The pie chart contains some negative or missing values that cannot be displayed.

A4.1 Path analysis - OrderPriority 1

Warnings: An artificial sequence order was generated for 120 paths that contains simultaneous events.

A5.1 Network

Warnings: One or more of the neuron layers has too many neurons to display and has been truncated. The independent variable layer is truncated from 1,094 to 50 neurons.

A6.1 Fit Statistic

Warnings:

Neural network - SubcategoryName 1: One or more of the neuron layers has too many neurons to display and has been truncated. The independent variable layer is truncated from 1,094

Number of observations for all models do not match.

A6.2 Relative Importance

Warnings:

Neural network - SubcategoryName 1: One or more of the neuron layers has too many neurons to display and has been truncated. The independent variable layer is truncated from 1,094

to 50 neurons

Number of observations for all models do not match.