

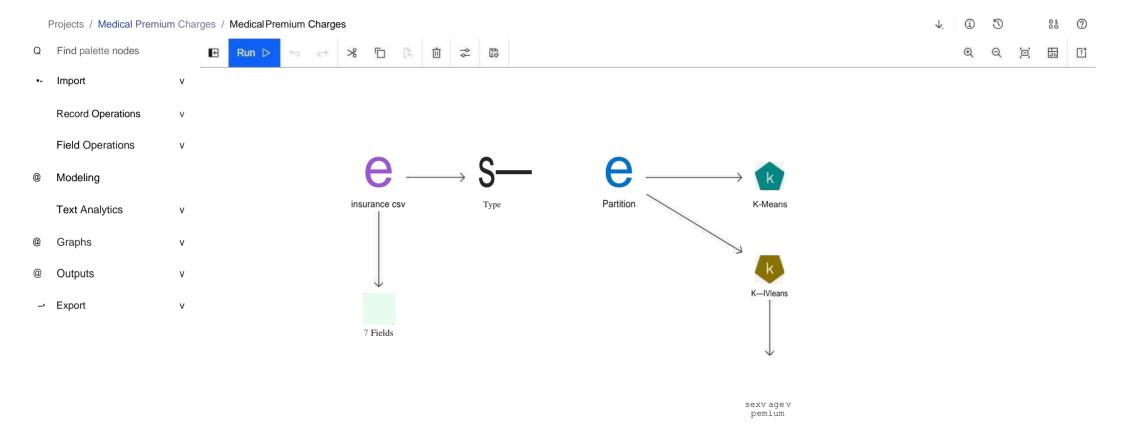
Steps @ Use a cccle I ei\\p at e ten ndd a ste|3

	<b>D</b> ata	Profile	Visualizations					Details Help
	<b>age</b> String	<b>sex</b> String	bmi String	children String	smoker String	<b>region</b> String	premium String	Edit 🙎
1	19	female	27.9	0	yes	southwest	16884.924	Edit <u>Ø</u>
2	18	male	33.77	1	no	southeast	1725.5523	LOCATION
3	28	male	33	3	no	southeast	4449.462	I'fledical Premium Charges
4	33	male	22.705	0	no	northwest	21984.47061	
5	32	male	28.88	0	no	northwest	3866.8552	DATA REFINERY FLOW NANE
6	31	female	25.74	0	no	southeast	3756.6216	insurance .csv_flow
7	46	female	33.44	1	no	southeast	8240.5896	Enter a description of the Dsta Refinery
В	37	female	27. 74	3	no	northwest	7281.5056	
9	37	male	29.83	2	no	northeast	6406.4107	STEPS
10	60	female	2584	0	no	northwest	28923.13692	0
11	25	male	26Z2	0	no	northeast	2721.3208	
12	6Z	female	2629	0	yes	southeast	27808.7251	
13	23	male	34.4	0	no	southwest	1826.843	DATA REFINERY FLOw ourpur
14	56	female	39.82	0	no	southeast	11090.7178	Location

(i)

X

Information



# @ Find in column Field

Field	Measure	Role		Value mode	Values	Check	
# age	Continuous	Input	V	Instantiated v	18, 64	None v	<b>©</b>
abc SeX	Flag	Input		Instantiated	female, male	None	@
# <sub>#</sub> bmi	Continuous	Input		Instantiated	15.96, 55.13	None	@
@ children	Continuous	Input		Instantiated	0, 5	None	@
asmoker	Flag	Input		Instantiated	no, yes	None	@
a region	Nominal	Input		Instantiated	northeast, northwe	None	<b>©</b>
premium	Continuous	Input		Instantiated	1121.8739, 63770	None	@

# View Output: Data Audit of [7 fields]

	Field	Graph	Measurement	Min	Max	Mean	Std. Dev	Skewness	Unique	Valid
1	age		Gontinuous	18	64	39.207	14.050	0.056		1338
2	sex		Categorical						2	1338
3	bmi	Cont	Continuous	15.960	53.130	30.663	6.098	0.284		1338
4	children		Categorical	0	5	1.095	1.205	0.938		1338
5	smoker		Categorical						2	1338
6	region								4	1338

# View Output: Data Audit of [7 fields]

6	region		Categ	orical						4	1338
7	premium	Mon-man.	Contin	uous	1121.874	63770.428	13270.422	12110.0	11 1.516		1338
	Field	Measurement	Outliers	Extremes	Action	Impute Missing	Method	% Complete	Valid Records	Null Value	Empty String
1	age	Continuous	0	0	None	Never	Fixed	100.000	1338	0	0
2	sex	Categorical				Never	Fixed	100.000	1338	0	0
3	bmi	Continuous	4	0	None	Never	Fixed	100.000	1338	0	0
4	children	Continuous	18	0	None	Never	Fixed	100.000	1338	0	0
5	smoker	Categorical				Never	Fixed	100.000	1338	0	0
6	region	Categorical				Never	Fixed	100.000	1338	0	0
7	premium	Continuous	7	0	None	Never	Fixed	100.000	1338	0	0

EVALUATION

Cluster Quality	Cluster Quality

hIODEL\'IEVUR

Cell Distribtihons (Relative)

**Build Settings** 

TrauipSusuig

Model Information		1	Poor	Fair	Good
Feature Importance		-0 S 0 0 ouelte Measure of C	Cohesio n	0 S an d Separatio	10 on
Cluster Sizes					
Cluster Comparison	Cluster Quality Pa	rameters			
Clusters					
Cell Distribuhons (Absolute)	Overall Clustering Qu	nality (Avg. Silhouette)	0.24	.9	

Total Within Cluatera Sum of Squares

Average Within Cluster Simi of squares

0.132

0.026

K-Means Clustering Model ①

Cluster Quality O

EVALUATION

Cluster Quality			Poor	Fair	Good
ODEL\IEIVER	-1 0	-0.5 Silhoue1te Me.	00 asure of Cohesia	0.S	1 ( ati on

Model Information

Feature Importance Cluster Quality Parameters

Cluster Sizes

Cluster Comparison

Clusters

Cell Diatribuhons (Absolute)

Cell Distribuhons (Relative)

**Build Settings** 

Tra g Summary

Overall Clustering Quality (Avg. Silhouette)	0.249
Tod tMnCufineSxDO Lqum€B	0132
Average Within Cluster Simi of squares	0 026
AvemgeSSB m)	0.075

K-Means Clustering Model ①

Model Information O

EVALUATION

igodflun K-Menus Cluster Quality

NIODEL A'mUUR Model Class Center Based

Model Information

Hianber of Features 7

Feature Importance

Cluster Sizes Distance Measure Euclidean

Clriater Comparison

Clusters Ninnber of Clusters 5

Cell Diatribiihons (Abeolute)

Cluster 1 81 (8.7%)

Cell Distribuhons (Relative)

Build Settings Cluster 2 368 (39.53%)

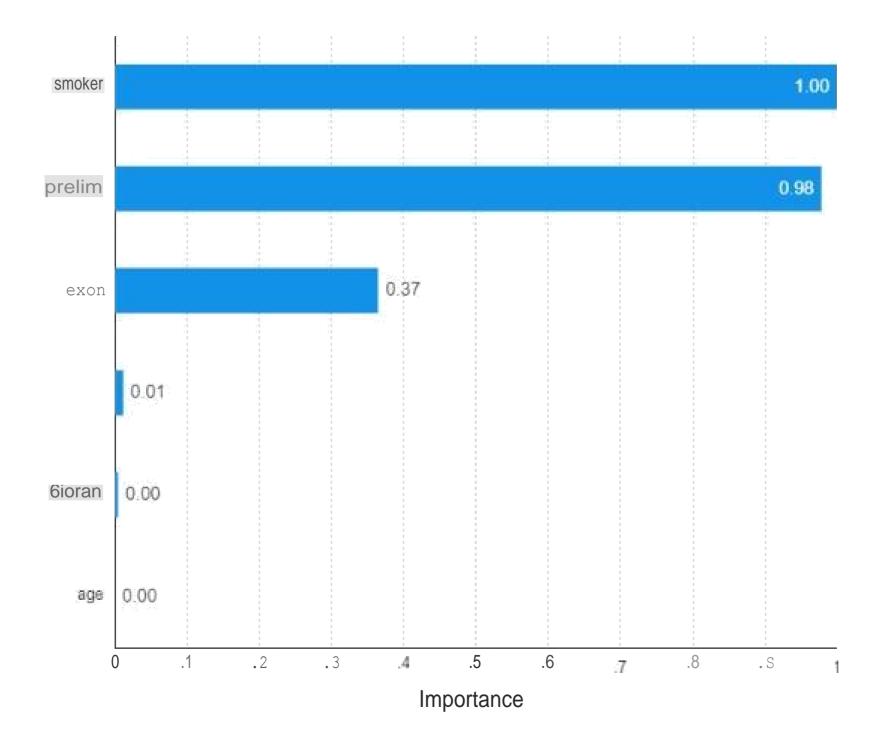
Training Summary

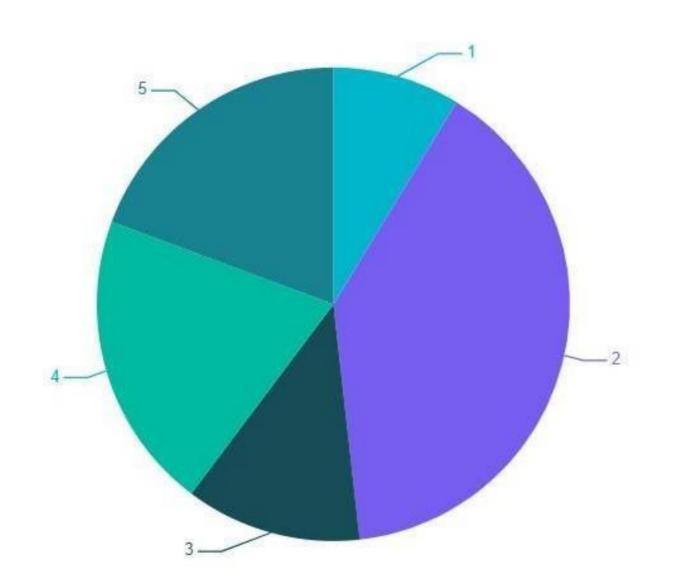
K-Means Clustering Model ①

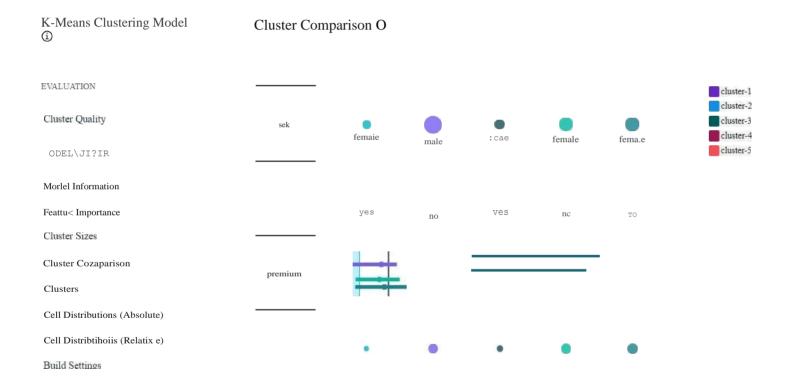
Model Information O

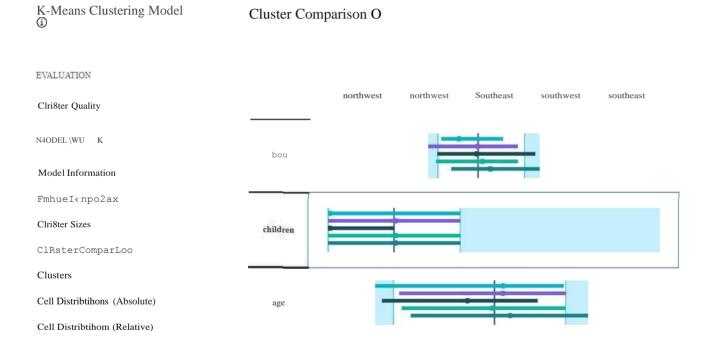
EVALUATION

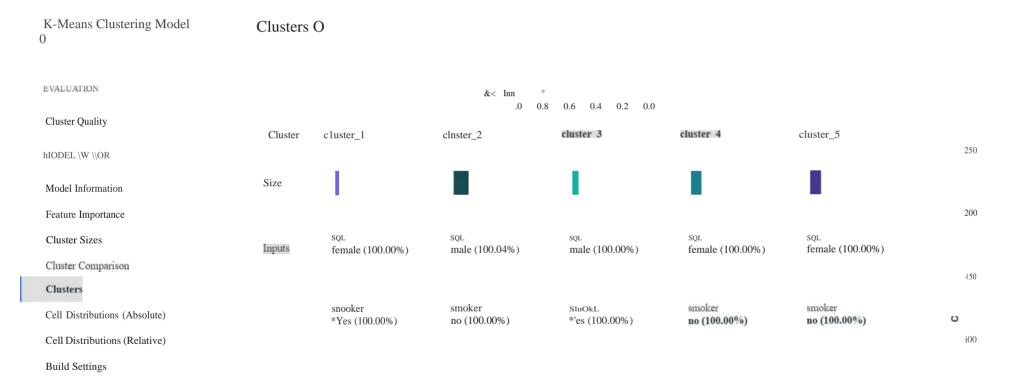
LYADVARION			
Clriater Quality	Ninnber of Clusters		5
ODELADAIR		Cluster 1	81 (8.7%)
Model Information			
Feattu< Importance		Cluster 2	368 (39.53%)
Clriater Sizes	Ninnber of instances in each cluster	Cluster 3	112 (12.03%)
Cluster Comparison			
Clusters		Cluster 4	190 (20.41%)
Cell Distribtihons (Absolute)			
Cell Distribtihons (Relative)		Cluster 5	180 (19.33%)
Build Setting	Ratio of sizes (Largest to smallest)		4.543
Training Summary			











Build Settings

K-Means Clustering Model Clusters O

EA LCATION		4nput Impo		00		
Cluster Quality						
	Cluster cluster_1	cInster_2	clnster_3	cluster_4	cluster_5	
NIODEL AHVUR	premium 30921.55	premium 8866.62	p/ j \jm 31714.55	premium 8191.76	iiwrniuin 8842.25	250
h4odel Information						
Feature Importance						200
Cluster Sizes	region northwest (35.29%)	repion szDrtbvest (27.52%)	region southeast (38J0%)	region southwest (53.49%)	region southeast (51.65%)	
Cluster Comparison		(27.3270)	(303070)		(=====,=,	
Clusters	bmi	bmi	bmi	bmi	bmi	150
Cell Distribtihons (Absolute)	29.95	30.52	30.70	30.39	31.77	O
Cell Distribtihons (Relative)						100

K-Means Clustering Model 0

Clusters O

EVALUATION

Cluster Quality

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Model Inforiiiation

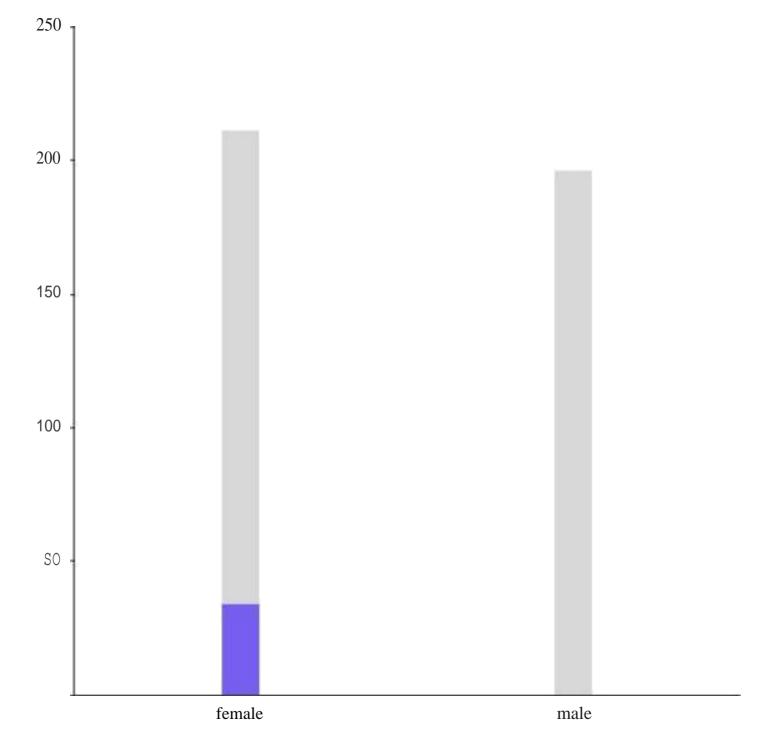
feature Importance

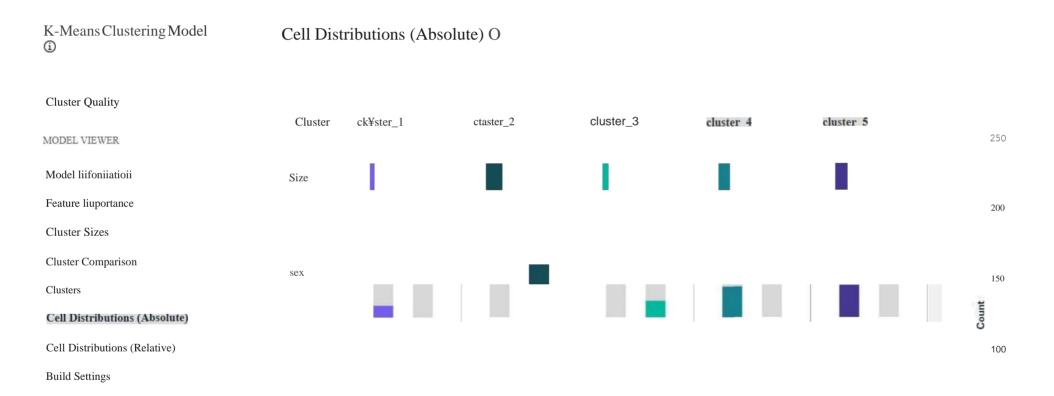
Cluster Sizes

Cluster Comparison

Cell Distribuhous (Absolute)

	bmi 29.95	bmi 30J2	bmi 30.70	bmi 30J9	bA 3*77
	children .91	children 1.11	children .77	children 1.16	children 1.07
	ape 39.65	ape 40.22	age 37.79	ape 40.50	age 41.43







K-Gleans C mustering klodel tell Distributions (Absolute) O (i) Cluster Quality c{us{er 3 cluster S Cluster cluster 1 cluster 2 cluster 4 ?10DEL\'0 Il 250 h4orlel In oiiiiation FeaRu< Iriiportance 200 Cluster Sizes Input: bmI Cluster: cluster • Cluster Comparison Cut Point: 42.95 150 Frequency-: 0.96. Clusters Overall Frequen bini Cell Distributions (Absolute) O Cell Distribiitioiis (Relative) 100 **Build Settings** 

K-Means Clustering Model tell Distributions (Absolute) O (i) Cluster Quality clusler 3 Guster cIuster\_1 cinster\_2 cluster 4 cIuster 5 250 ODELAIE Il Morlel Information Feattu< Importance 200 children Cluster Sizes AAAAA AAAAA AAAAA Cluster Comparison 150 Clusters Count Cell Distributions (Absolute) age Cell Distribiihons (Relative) i00 **Build Settings** 

# K-Means Clustering Model

#### Cell Distributions (Relative) O

Cluster Quality

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Model Information

Feature Importance

Cluster Sizes

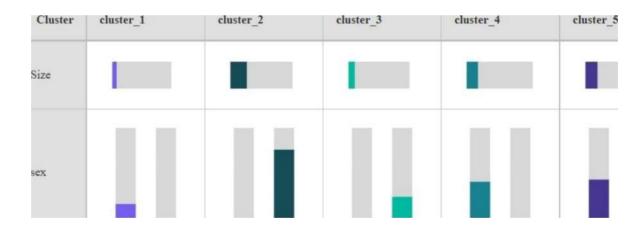
Cluster Comparison

Clusters

Cell Distributions (Absolute)

#### Cell Distributions (Relative)

**Build Settings** 

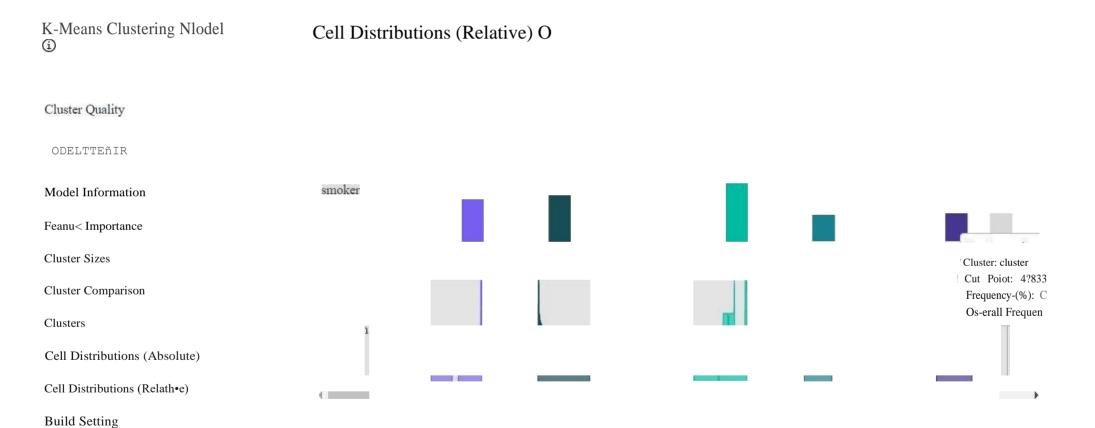


100

80

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40



**Build Settings** 

K-Means Clustering Model

Cluster Quality

MODEL VIEWER

Model Information
Feature Importance
Cluster Sizes

Cluster Comparison

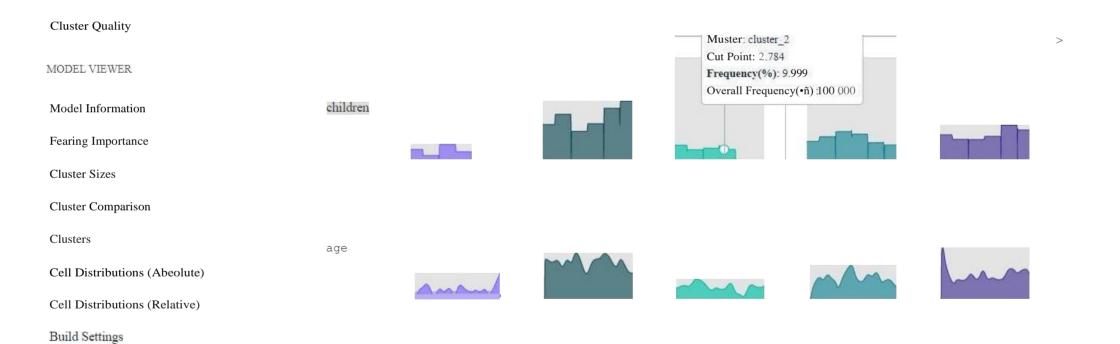
Cluster Comparison

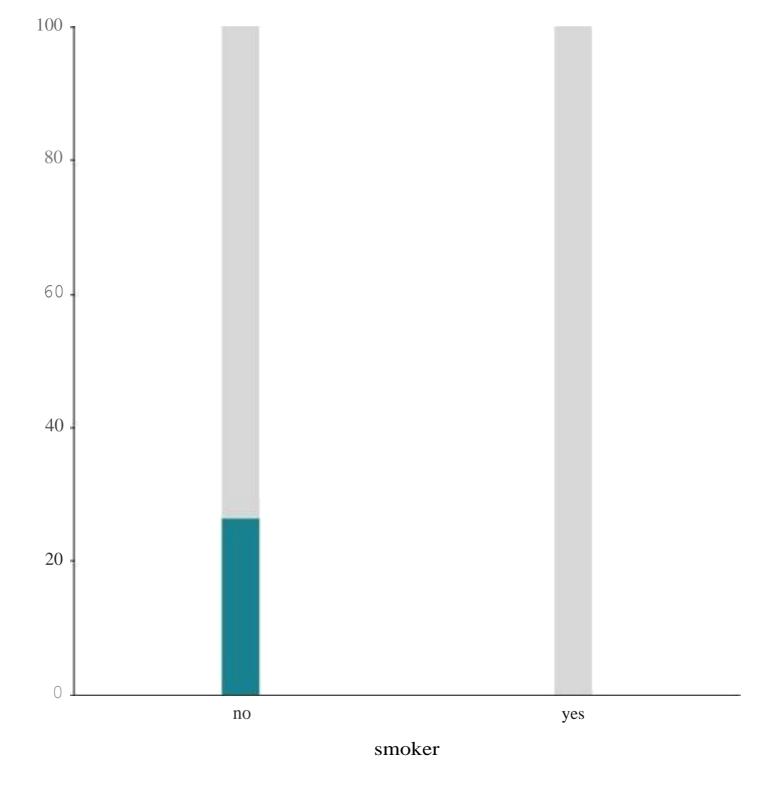
Clusters

Cell Distributions (Relative)

K-Means Clustering Model

Cell Distributions (Relative) O





# K-Means Clustering Model ①

# Build Settings O

Cluster Quality

hIODEL \WVT-R

Model Information

Feature Importance

Cluster Sizes

Cluster Comp6Fi8Oll

Clusters

Cell Distributions (Absolute)

Cell Distributions (Relatix c)

Use partitioned data	auc
Calculate raw propensity scores	fidsc
Calculate adjusted propmsity acores	false
Nimiber of clusters	5
Generate distance field	false
Cluster label	Striap

#### K-Means Clustering Model

# Training Summary O

Cluster Quehty

ODEL\TEWIR

Model Information

Feature Importance

Cluster Sizes

Cluster Comparison

Clusters

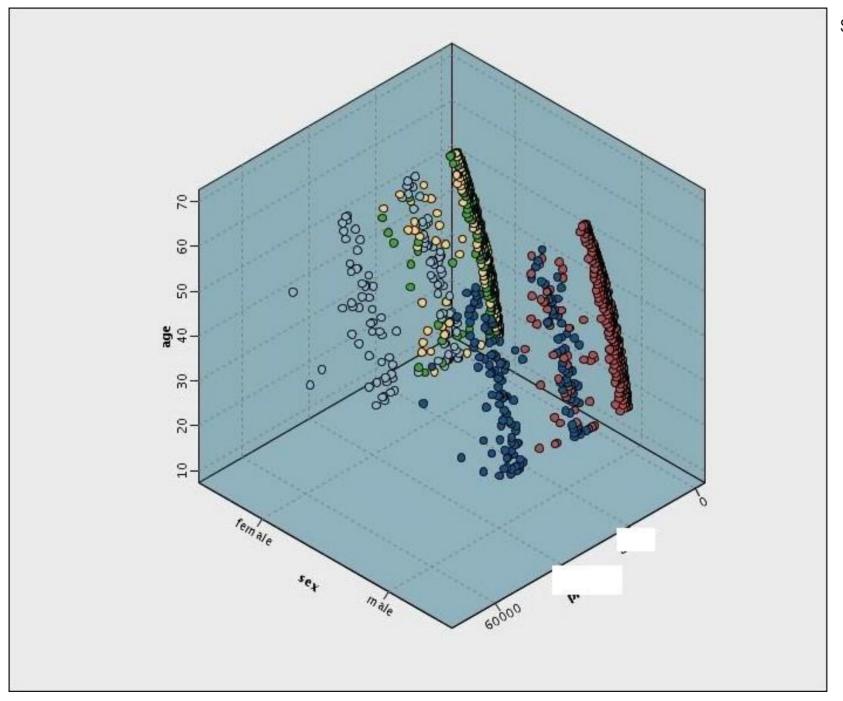
Cell Distribuhons (Absoliñc)

Cell DiaHJbuhons (Rela6ve)

Build Settings

**Training Summary** 

Algorithm	K-means
Model iype	Clustering
Date built	Tue Dec 28 10:43:11 UTC 2021
Elapsed time ter model build	0 lioun, 0 ruins, 0 secs



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© cluster— 1
© cluster—2
© cluster—3
M cluster—4
© cluster—5