

< Return to Classroom

Data Cleanup

	REVIEW			HISTORY
Veets !	Specifications			
Hey!				
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		· · · ·		time and efforts on the same,
especia	illy the well-laid explan	ation and re	easoning cou	pled with business logic and
analyti	cal skills. You are one s	tep closer to	o graduating	from the Nanodegree. 💐
				ful. If you need any help, feel free to post questions you all the possible areas of improvement.
f you are s	atisfied, please feel free to rate the rev	view and provide yo	our feedback. 😄	
Vishing you	all the best for future endeavours. G	ood luck 😄 👍		
Busine	ss and Data Understand	ding		
~	The section is written clearly and i	s concise. The sect	ion is written in les	s than 250 words.
	 Store based on predicter What data is needed to The management re Therefore to predict 	decide on which d yearly sales. inform those de- equires the decis sales we shall n f cities in Wyom	cisions? sion to be based equire past sale ing, data on Wyo	to open Pawdacity's newest on predicted yearly sales. s data of all Pawdacity's stores, oming population in various
~	All the following questions have be		wered:	
	2. What data is needed to infor		?	
	Q1 🗸	rm those decisions	need to make based	on our analysis is which city should
	Q1 💟 Awesome: You're right! The key bus Pawdacity open its 14th store, base Q2 🟹	rm those decisions siness decision we r d on yearly perforn	need to make based nance.	on our analysis is which city should analysis, since we're asked "What data is
Buildin ~	Q1 ♥ Awesome: You're right! The key bus Pawdacity open its 14th store, base Q2 ♥ Awesome: You did a great job by lis needed?" g the Training Set The averages for each column is co ♥ Awesome: The averages obtained a ♥	rm those decisions siness decision we r d on yearly perform ting down the varia orrect in the trainin re accurate and pre	need to make based nance. bles useful for the a ng set ecise for all columns werage	analysis, since we're asked "What data is
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r opulation Density	00	0.77
Total Families	62,653	5695.71

Additional Resources

For more information on the importance of Data Cleaning, please refer Data Wrangling-Lesson 2 Data Issues-Video Dirty Data

Outliers have been analyzed for each field in the training set.

The outliers are accurately identified.

The decision to keep, remove, or impute each outlier is well justified.

After pointing out all the possible outlier cities only one city should be decided upon to remove.

\checkmark

Awesome: Nice work identifying the outliers- Gillette and Cheyenne. The reasoning to remove Cheyenne and keep others has been stated appropriately.

Because the city of **Cheyenne** has relatively massive outlier values across multiple fields it will lessen the model's ability to make predictions as keeping it in the model will skew all other predictions.

Therefore it would be best to filter out and remove the record of the city of Cheyenne.

The record of the city of **Rock springs** has an outlier value in the field of **land_area** with a value of 6620.20. Based on the fitted line on the scatter plot, the outlier is in line with the relationship, so I'd leave it in.

The record of the city of **Gillette** has an outlier value in field of **sales** with a value of 54,3132. Rather than removing the record of this city I will build a model with and without this record to compare the effect of the outlier.

Additional Information

Based on the IQR method results, you can either remove/keep Gillette or Cheyenne because-

1) Remove Gillette because it skews high in sales, yet does not skew relative to the other data fields in the training set and hence keep Cheyenne because it's inline with the linear relationship

2) Remove Cheyenne because it's unlike other cities for many fields (i.e. it's an outlier in many fields) and hence keep Gillette because the dataset is small and the values are close to Upper and Lower fence

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