Southern New Hampshire University

DAT 640 Practical R Activity Three Guidelines and Rubric: Selecting Visualizations

For this assignment, you will have three deliverables:

- A summary of your data
 Two visualizations of your data
 Justification for the type of visualizations you chose

Part I – Data Summary:

Summarize your data through basic or detailed numeric summaries and through a characterization done by looking at any or all of the following:

- Distribution
- Skewness
- Kurtosis
- Missing values in data sets

As part of your summary, describe how the statistics generated may be valuable in determining potential areas of investigation.

Part II - Visualizations:

Choose two different visualizations using any of the methods learned in Section 5.1. You must provide two visualizations (by screenshots) of the data set you chose in Module Two.

Part III - Justification of Visualizations:

From Data Mining With R and Rattle: The Art of Excavating Data for Knowledge (p. 99):

(the average value), and how it is distributed (how spread out the data is). The data begins to tell us a story, and we need to build and understand that Through exploring our data, we can discover what the data looks like, its boundaries (the minimum and maximum values), its numeric characteristics story for ourselves. By capturing that story, we can communicate it back to our clients.

Justify the rationale for selecting one or more of these visualizations to tell a "story." What aspects of the visualization are uniquely suited to the use of this method?



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Rubric

Guidelines for Submission: Your submission should follow these formatting guidelines: double spacing, 12-point Times New Roman font, one-inch margins, and citations, if any, in APA format when appropriate.

Exemplary (100%)	of all R	Proficient (90%)	Needs Improvement (70%)	Not Evident (0%)	Value 15
	of R command	of R command executions in	of R command executions in	demonstration of R command	CT
form of screenshots or the form of screenshots or command output listings	the form of sci	reenshots or put listings	the form of screenshots or command output listings	executions in the form of screenshots or command	
				output listings	
Meets "Proficient" criteria and Submission	Submission	Submission includes all the	Submission includes more than	Submission includes less than	15
provides additional analyses or required ele	required ele	required elements of the	50% of the required elements	50% of the required elements	
relevant supporting scholarly analysis material	analysis		of the analysis	of the analysis	
Meets "Proficient" criteria and Demonstrates accurate	Demonstrates	accurate	Demonstrates utilization of the	Does not demonstrate	30
includes assessment of utilization of the R/Rattle	utilization of t	he R/Rattle	R/Rattle packages with	utilization of the R/Rattle	
alternative settings/tuning packages per the model	packages per t	he model	inaccuracies or does not adhere	packages	
procedures specifications	specifications		to the model specifications		
Meets "Proficient" criteria and Provides in-dep	Provides in-dep	Provides in-depth analysis that	Provides an analysis that	Does not provide in-depth	30
draws insightful conclusions demonstrates complete	demonstrates	complete	demonstrates a general	analysis	
that are thoroughly defended understandin	understandin	understanding of concepts and	understanding of concepts or		
with evidence and examples draws inform	draws inform	draws informed conclusions	draws logical conclusions, but		
that are justif	that are justif	that are justified with evidence	does not defend with evidence		
Submission is free of errors Submission h	Submission h	Submission has no major errors	Submission has major errors	Submission has critical errors	10
related to citations, grammar, related to cita	related to cita	related to citations, grammar,	related to citations, grammar,	related to citations, grammar,	
spelling, syntax, and spelling, synta	spelling, synta	spelling, syntax, or organization	spelling, syntax, or organization	spelling, syntax, or organization	
organization and is presented			that negatively impact	that prevent understanding of	
in a professional and easy-to-			readability and articulation of	ideas	
read format			main ideas		
				Earned Total	100%