Unit 3: Assignment

06/04/2025

80 Points Possible

Attempt 1

In Progress

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Details

PARK UNIVERSITY

ASSIGNMENT

Directions

Build a linear regression model using one of the following datasets:**10 open datasets for linear regression (https://www.telusinternational.com/insights/ai-data/article/10-open-datasets-for-linear-regression)**

Include the following:

- A classic linear regression and discussion of the coefficients.
- A regularized regression (ridge, lasso, or elastic net) and a discussion of how the regularized coefficients compare to the "classic" ones.
- A quantile regression, with a discussion of why you selected the quantile you did.
- Turn your target variable into a binary class (e.g., high and low) and run a logistic regression. Discuss what you learn from the coefficients and how they compare to the regression models.
- Please show all your code.

Criteria for Success

- You can reference the attached rubric that I will use to grade this assignment. As always, let me know if you have questions!
- Due Sunday, 11:59 p.m., CT.

View Rubric

Assignment Rubric				
Criteria				**Points**
Content organization and relevance	**Excellent** Content is well organized and relevant to the assignment. **25.1 to 30 pts**	**Average** Content organization has minor issues; or/and minor parts of the assignment are missing. **15.1 to 25 pts**	**Insufficient** Content is poorly organized, or irrelevant to the assignment. **15 pts**	/30 pts
Writing and APA style	**Excellent** The content is well-written, sources are properly referred in APA style when applicable. **7.1 to 10 pts**	**Average** The content has minor writing issues, or there are minor issues with reference formatting. **5.1 to 7 pts**	**Insufficient** The writing is poor. APA format is ignored when applicable. **5 pts**	/10 pts

Methodology	Excellent	Average	Insufficient	/40 pts
	Methodology appropriate for the task has been fully followed **30.1 to 40 pts**	Minor issues with the methodology **20.1 to 30 pts**	Major issues with the methodology **20 pts**	

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