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CART AND CHAID

For this Assignment, using the *Forest Fires* dataset, you will use the CHAID technique to predict a fire using all other variables in the dataset as predictors. You will compare the results of the CART technique (that you used in Assignment 1) and the CHAID technique. You will then provide an explanation and evaluation of the results using evidence from your results/data to support you.

RESOURCES

Be sure to review the Learning Resources before completing this activity.  
Click the weekly resources link to access the resources.

[**WEEKLY RESOURCES**](https://waldenu.instructure.com/courses/23713/modules/items/679164)

TO PREPARE

* Review this week’s Learning Resources and consider the examples illustrating non-binary classification trees.
* Review the media programs in this week’s Learning Resources and consider the SPSS techniques you will need to perform for this Assignment.
* Review the *Forest Fires* dataset that your Instructor has uploaded to the **DocSharing** area, and import it into SPSS for this Assignment.

***Note:****You may choose to work with a partner for this Assignment. This is optional.*

ASSIGNMENT: (1–2 PAGES FOR ANALYSIS AND 1–2 PAGES FOR OUTPUT/RESULTS)

* Use the *Forest Fires*dataset in SPSS.

***Note:****This dataset contains data on forest fires in the U.S. with associated environmental conditions.*

* Use the CHAID technique to predict a fire (fire) using all other variables in the dataset as predictors.

***Note:****Each variable is described in its label.*

* Compare the results of the CART technique (that you used in Assignment 1) and the CHAID technique.
* Provide a thorough analysis of your results. Use evidence from your results/data to support your explanation.

Include both your written analysis and your data output/results for this Assignment.

BY DAY 7

**Submit**your Assignment 2.

***Note:****If you work with a partner, make sure to include their name in addition to yours on your Assignment.*

SUBMISSION INFORMATION

Before submitting your final assignment, you can check your draft for authenticity. To check your draft, access the **Turnitin Drafts** from the **Start Here** area.

1. To submit your completed assignment, save your Assignment as **WK8Assgn2\_LastName\_Firstinitial**
2. Then, click on **Start Assignment 2** near the top of the page.
3. Next, click on **Upload File** and select **Submit Assignment 2** for review.

Rubric

**DDPA\_8210\_Week8\_Assignment2\_Rubric**

| DDPA\_8210\_Week8\_Assignment2\_Rubric | | |
| --- | --- | --- |
| **Criteria** | **Ratings** | **Pts** |
| This criterion is linked to a Learning OutcomeAnalysis and Results | |  |  |  |  | | --- | --- | --- | --- | | **25 to >20.0 pts**  **EXCELLENT**  The paper includes a clear description of the chosen variables, their unit of analysis, and their levels of measurement. A clear visual display of the data (if appropriate) is also provided.... The paper demonstrates an excellent understanding of the chosen variables and their utility.... The paper provides a thorough analysis of the results and uses evidence from the results/data to support the explanations.... The paper includes both a written analysis and the data output/results. | **20 to >15.0 pts**  **GOOD**  The paper includes a satisfactory description of the chosen variables, their unit of analysis, and their levels of measurement. A visual display of the data (if appropriate) is also provided.... The paper demonstrates a good understanding of the chosen variables and their utility.... The paper provides a satisfactory analysis of the results and uses evidence from the results/data to support the explanations.... The paper includes both a written analysis and the data output/results. | **15 to >10.0 pts**  **FAIR**  Paper includes a description of the chosen variables, but the description is missing one or more of the following details: their unit of analysis, their levels of measurement, and/or a visual display of the data (if appropriate).... The paper demonstrates a fair understanding of the chosen variables and their utility.... The paper provides a fair analysis of the results and may or may not use evidence from the results/data to support the explanations.... The paper may or may not include both a written analysis and the data output/results. | **10 to >0 pts**  **POOR**  Paper includes a description of the chosen variables, but the description is missing several of the following details: their unit of analysis, their levels of measurement, and/or a visual display of the data (if appropriate).... The paper demonstrates a poor understanding of the chosen variables and their utility.... The paper provides a poor analysis of the results and does not use evidence from the results/data to support the explanations.... The paper does not include both a written analysis and the data output/results. | | 25 pts |
| This criterion is linked to a Learning OutcomeWriting | |  |  |  |  | | --- | --- | --- | --- | | **20 to >16.0 pts**  **EXCELLENT**  Paper is well organized, uses scholarly tone, follows APA Style, uses original writing and proper paraphrasing, contains very few or no writing and/or spelling errors, and is fully consistent with graduate-level writing style. Paper contains multiple, appropriate and exemplary sources expected/required for the Assignment. | **16 to >12.0 pts**  **GOOD**  Paper is mostly consistent with graduate-level writing style. Paper may have some small or infrequent organization, scholarly tone, or APA Style issues, and/or may contain a few writing and spelling errors, and/or somewhat less than the expected number of or type of sources. | **12 to >8.0 pts**  **FAIR**  Paper is somewhat below graduate-level writing style, with multiple smaller or a few major problems. Paper may be lacking in organization, scholarly tone, APA Style, and/or contain many writing and/or spelling errors, or shows moderate reliance on quoting versus original writing and paraphrasing. Paper may contain inferior resources (number or quality). | **8 to >0 pts**  **POOR**  Paper is well below graduate-level writing style expectations for organization, scholarly tone, APA Style, and writing, or relies excessively on quoting. Paper may contain few or no quality resources. | | 20 pts |
| Total Points: 45 | | |

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