Final report:

Texas Bridge assessment using NBI Data and Logistic Regression

Submitted to:

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Course:

GIS Applications in Engineering (CVEN-5370-01)

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Acknowledgement:

I would like to extend my sincere gratitude to Dr. Venkatesh Uddameri for his invaluable guidance and support throughout this project

I would like to express our appreciation to NBI data.

Lastly, I am very elated with the computational power and understanding of ChatGPT. Without its help it would have been cumbersome task to complete all the coding.

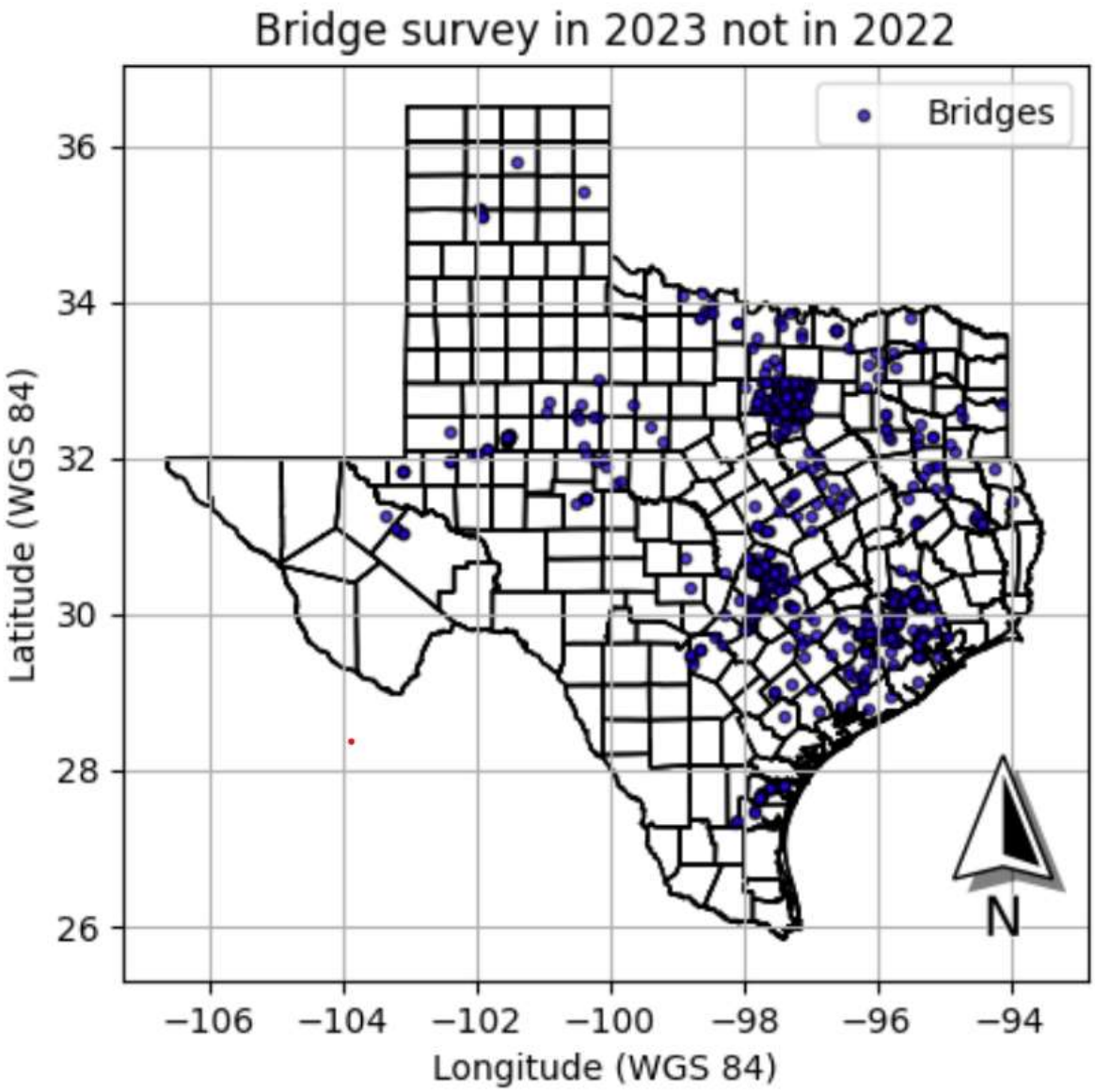

Figure 1 Bridges surveyed in 2023 but not in 2022 in Texas.

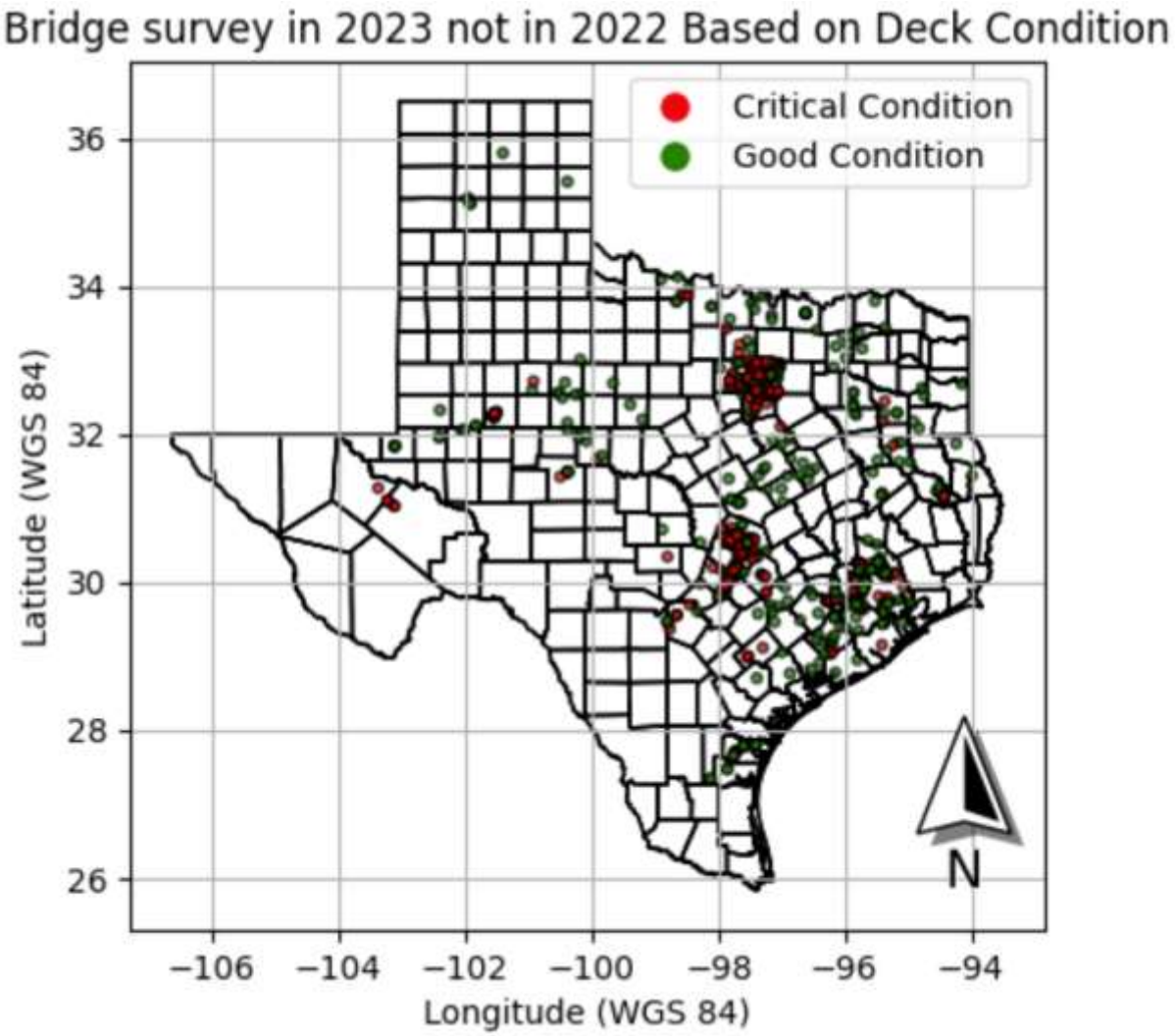

Figure 2 Prediction of bridges surveyed in 2023 not in 2022 based on deck condition in Texas.

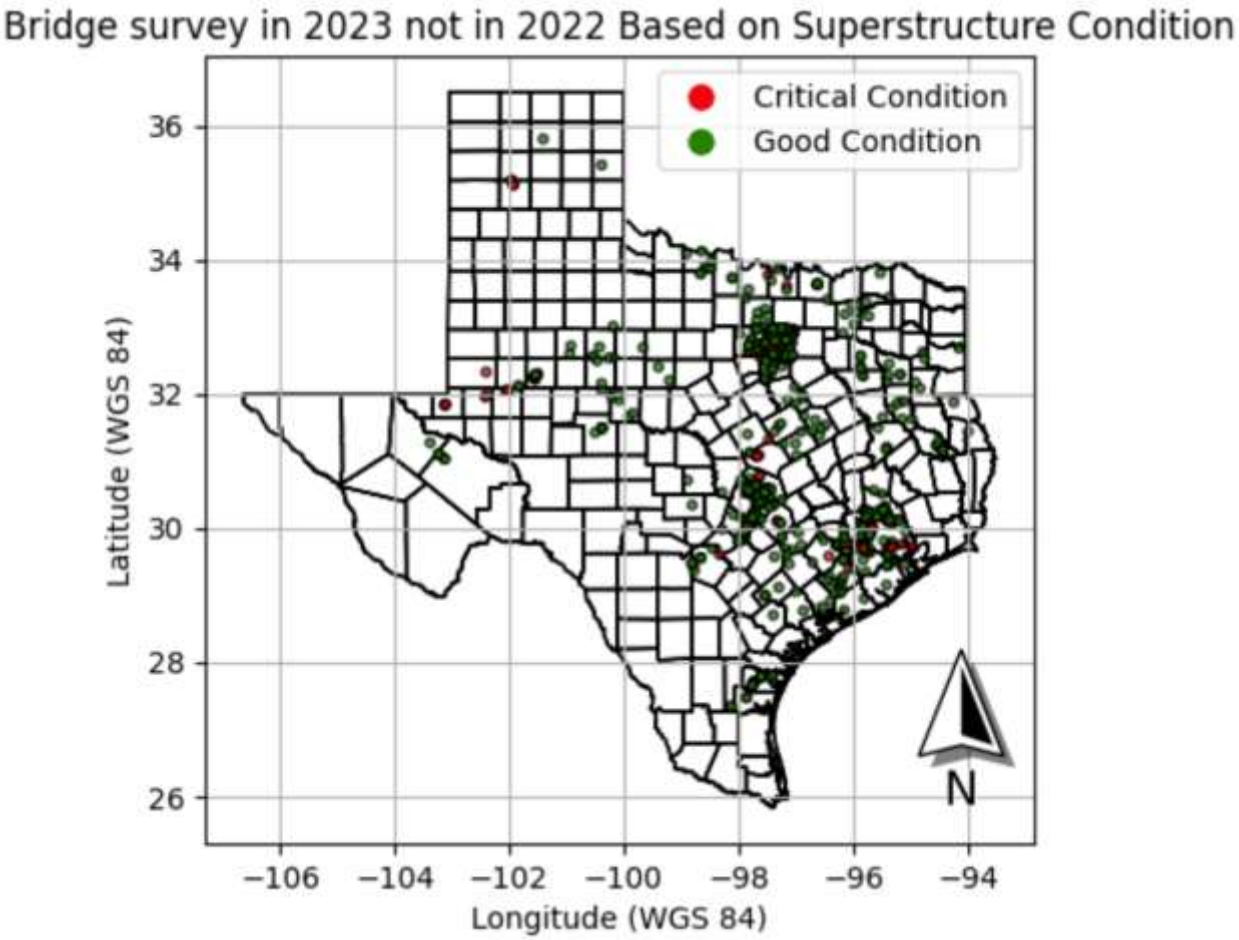

Figure 3 Prediction of bridges surveyed in 2023 not in 2022 based on superstructure condition in Texas.

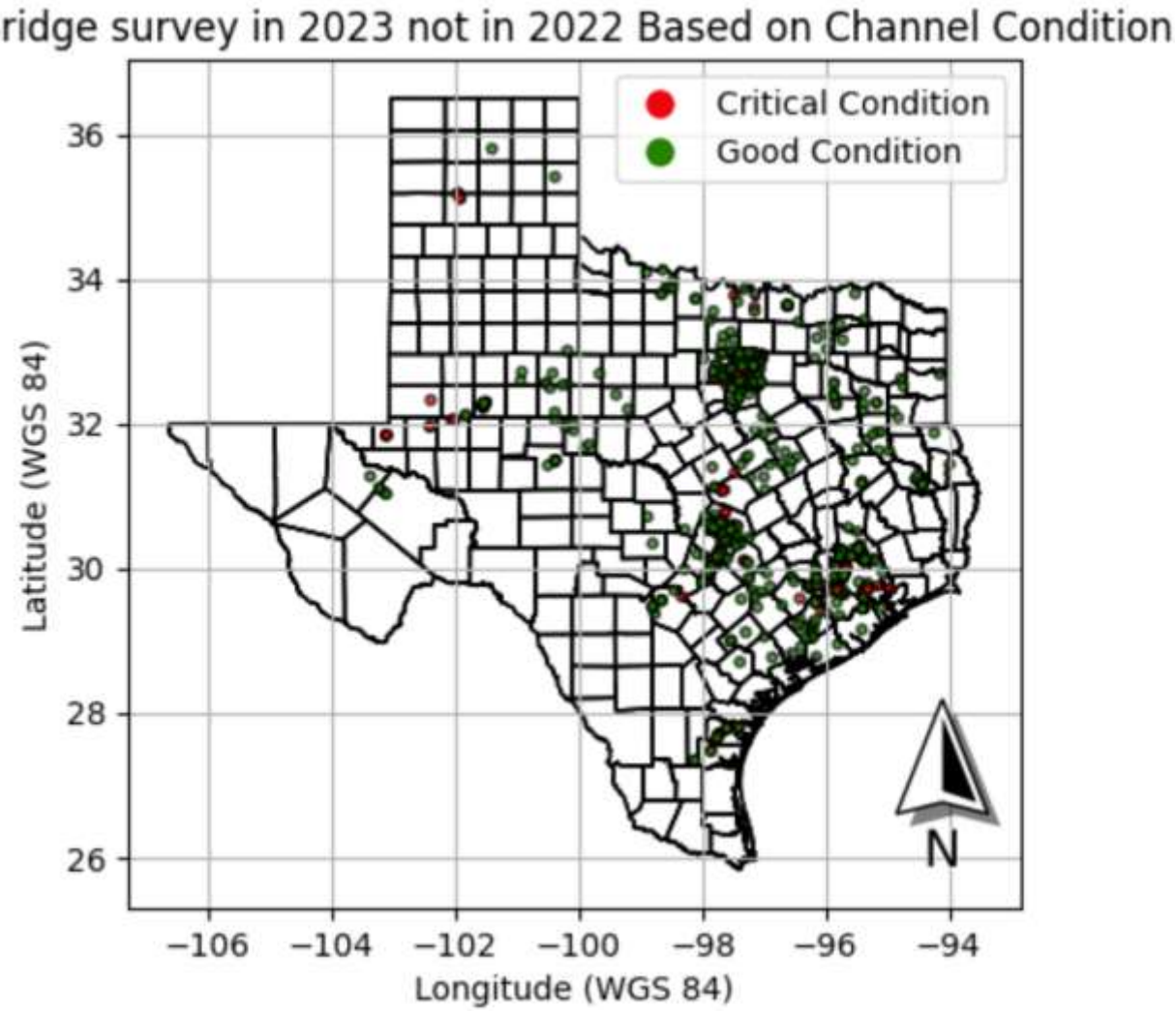

Figure 4 Prediction of bridges surveyed in 2023 not in 2022 based on channel condition in Texas.