

Developing a Predictive Link between Adverse Childhood Experiences and Developmental Delays

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ABSTRACT

The purpose of this project is to use the presence of Adverse Childhood Experiences (ACEs) to predict developmental delays in need of therapy. Three models are compared: simple linear, logistic, and decision trees. ROC Curves are used in order to choose between the models, using the model with the greatest area under the ROC curve. Because of the large size of the data set, the data was tested against itself to determine predictive accuracy.

After comparing the three models, it was found that the linear model is slightly superior to the other two, but all three were similar. The final model chosen would depend on the needs of the person using the model. A final model was compiled for each method.