**Machine Learning Model**

* In our first machine learning model (Logistic Regression) we are predicting whether the wildfire incident that took place is a major incident or not based on the data that we have collected.
* We have connected to our provisional wildfire database using SQLAlchemy to retrieve the data and then used SQL joins to extract the necessary fields we need to prepare our machine learning model.

Graphical user interface, text, application

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* After joining we have created a data frame with all necessary columns we need to train our model with. The major incident column will be our target column and the

Total acres burned, injuries, structures impacted, weather data like maximum temperature, windspeed, minimum temperature, average temperature will be our features column.

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* We have encoded and scaled the data and then split it into the training and testing data .
* We have used logistic regression model for binary classification to predict whether the wildfire is a major wildfire or not .
* We have generated the classification report and the confusion matrix along with the accuracy score for our model.

Graphical user interface, application

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Table

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