

CSCI 3900C Project VIII (75 points)

Write an R Shiny App that will analyze the data set described below and allow the user to explore the results interactively, as described below.

Upload your source file to the Project VIII D2L drop box.

Download the following file from D2L:

WeatherEvents.csv (This is the data file for the assignment)

Background

The data file is a partially scrubbed version of a data set obtained from the National Weather Service.

The 'EVENT' variable represents the type of event. The variables describing the impact of the event are:

- FATALITIES Number of deaths
- INJURIES Number of injuries
- PROPDMG Cost of property damage
- CROPDMG Cost of damage to crops

Analysis Tasks

- Determine the top 3 events that have caused the most severe economic consequences.
- Determine the top 3 events that have caused the most severe health and safety problems.

Interactive UI Tasks

- Allow the user to select EITHER "Economic" OR "Health & Safety"
- Based on the user's selection, display a chart showing the impact of the top 3 events.

BONUS UI Task

- Allow the user to narrow down the data set to represent only a given state. Include at least 4 states in your list of options (you do NOT have to include every state).