**Project title:** Predicting Wildfire Trends in California

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**Project discipline/outline:** Wildfire trends

**Research questions to answer:**

1. Will data on drought and soil moisture accurately predict wildfire incidences in California?

**Datasets to be used:**

1. <https://www.kaggle.com/datasets/ananthu017/california-wildfire-incidents-20132020?resource=download>
2. <https://www.weatherapi.com/api.aspx>
3. <https://www.fire.ca.gov/incidents/2022/>

**Rough breakdown of steps:**

1. Load data to database and query it
2. Merge datasets on wildfires and weather
3. Build a supervised classification model
4. Build a heat map with a sliding bar showing wildfire and weather changes over time and predicting wildfire and weather trends in the future
5. An alternate option: use ANOVA to generate time series predicting number of wildfires over time