Wildfire Risk in Orange County

Project Objectives

- Use machine learning to predict the risk of wildfires in Orange County and surrounding areas.

Variables

- Temperature
- Soil Moisture
- Humidity
- Dryness of plants: https://www.drought.gov/topics/vegetation

Data Sources

Wildfire Risk

- https://firms.modaps.eosdis.nasa.gov/usfs/map/#d:24hrs;@-100.0,40.0,4.0z
- https://projects.capradio.org/california-fire-history/#7.32/40.515/-122.008/10.1
- https://osfm.fire.ca.gov/what-we-do/community-wildfire-preparedness-and-mitigation/fire-hazard-severity-zones
- https://wildfirerisk.org/explore/overview/06/06059/
- https://wfca.com/wildfire-articles/fire-prediction-technology/

Temperature

- https://weatherspark.com/countries/US/CA
- https://www.currentresults.com/Weather/California/average-annual-city-temperatures.php

Soil Moisture

- https://www.drought.gov/data-maps-tools/cpc-soil-moisture
- https://www.cpc.ncep.noaa.gov/products/Soilmst_Monitoring/US/Soilmst/Soilmst.shtml#

Humidity

- https://www.usairnet.com/weather/maps/current/california/relative-humidity/
- https://www.currentresults.com/Weather/California/humidity-annual.php

Plant Dryness

- https://www.drought.gov/topics/vegetation