# Class Project – Fall 2022

- Create Cloud App that will allow users to predict wildfires in California for given month and year
- Software will comprise of the following
  - Web & Mobile accessible application to show predictions by month and year
    - Expected number of wildfires in California
    - Expected number of areas burned
      - Preferably by locations that have high probability for wildfires

  - Artificial Intelligence based Machine Learning Model used for Predictions
  - Web Services API End-point to connect Web & Mobile Apps to AI-ML backend

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- Inputs
  - California Wildfires Data
    - Kaggle California WildFires Data Set 2013-2020
  - California Weather Data
    - CIMIS Weather Station Data
  - Columns
    - WildFires
      - Date, Location,
      - Acres Damaged, Cause
    - Weather
      - Date, Location
      - Precipitation, Temperature, Pressure, Rainfall in past 90 days

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