

# How to Use the California Wildfire Damage Prediction Model

## Pre-request:

Users need to have access to Python 3.12.7 (TensorFlow 2.18.0 required) and MATLAB R2023b.

The authors recommend running Python code on Jupyter Notebook. Running the codes on different versions of Python, TensorFlow, or MATLAB may result in compatibility issues. However, most compatibility issues can be resolved by following the suggestions in the error messages.

## Step-by-step instruction:

**Step 1:** Run MATLAB code “P1\_User\_Input.m”.

Follow the prompts in the MATLAB command window and input the required features.

**Step 2:** Run Python code “P2\_Damage\_Prediction.ipynb”.

This step will output the estimated probabilities of each damage state based on the user-input features.

Note: The “file\_dir” variable in the first cell must be updated to the full path of the folder containing the downloaded source code.