LAB 2

Writing a Project Narrative

Project Title: Forest Fire Prediction

Project Summary and Overall Approach: Forest fires are uncontrolled fires that occur in wildland areas, often in forests. Forest fires can be destructive to the environment, as well as to human life and property. They can cause damage to trees and other vegetation, wildlife and air. Fires in forest can be caused by both natural and human factors. Natural causes include severe drought, high temperatures, lightning strike, and the spontaneous combustion of dry foliage. Human actions such as carelessly using open flames or intentionally starting fires can also lead to forest fires.

Machine learning techniques will be used like providing a dataset that will be used to train the model on machine learning algorithms to precisely predict forest fires. To get the results the users will have to enter some geographic information. The system will use this information to analyze and visualize the patterns in the data, as well as to map the predicted likelihood of forest fires.

Forest fire prediction system develops a reliable and accurate system for predicting forest fires that can be used to help protect communities and ecosystems from the devastating impact of these natural disasters. The results of the prediction will be shown in the form of a website to the users.

Contribution of team members:

Member 1 (201b298): Gathered all the information related to forest fires, what are causes and what damages do they cause.

Member 2 (201b299): Preparing modeling techniques about how to train the model and what algorithms can be used to train the machine learning model to predict precise results.

Member 3 (201b300): Looking for techniques about how to connect a machine learning model to a website to show the results.