PROBLEM STATEMENT

TITLE : Emerging Methods For Early Detection Of Forest Fires

DOMAIN : Artificial Intelligence

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Problem Statement Description:

Forest fires are a major environmental issue, creating economic and ecological damage while endangering human lives. There are typically about 100,000 wildfires in the United States every year. Over 9 million acres of land have been destroyed due to treacherous wildfires. It is difficult to predict and detect Forest Fire in a sparsely populated forest area and it is more difficult if the prediction is done using ground-based methods like Camera or Video-Based approach. Satellites can be an important source of data prior to and also during the Fire due to its reliability and efficiency. The various real-time forest fire detection and prediction approaches, with the goal of informing the local fire authorities.

What is the issue?

- Loss of biodiversity.
- Extinction of plants and animals.

When does the issue occur?

- Natural causes like lightning.
- Man- made causes like stubble burning

How we detect forest fires now?

- Satellite images.
- Optical systems.
- Human interactions.

Why we need to fix this problem?

- Prevent future disasters.
- Control fires.