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Introduction

Introduction

Problem Statement

Every year forest fires destroy a huge area of forest cover, leaving large-scale destruction of flora and fauna in its wake. Forest fires play a major role in driving thousands of species of wildlife to extinction every year. Artificial intelligence helps us predict the future and using it in this domain can successfully help us predict forest fires and save the wildlife.

Objectives

- Provide real-time visual reference of forest fire probability around the world.
- Minimize damage and if possibly prevent it.
- Providing early contingency warning for upcoming wildfires. ## Scope

2019-2020 Australian Bushfires

- Australia was hit hard by bushfires during summer 2019-20 - the most catastrophic bushfire season ever experienced in the country's history. So much was lost, and the impacts will be felt for years to come.
- Early in January 2020, WWF estimated that at that time, 1.25 billion animals had been killed. As the fires raged well into March, and destroyed even more habitat, we had a scientific duty to update that figure to understand the true impact on our wildlife and natural landscapes.

- Up to 19 million hectares were burnt, with 12.6 million hectares primarily forest and bushland. 33 lives were lost and around 3,094 homes destroyed.

Using an AI model to provide real-time updates on the the status of wildfire will help avert

Literature Survey

Literature/Techniques studied

Algorithms used by previous projects:

1. ANN(Artificial Neural Networks)
- 2.

Papers/Findings

Previous Projects used these ML algorithms to train their model:

1. ANN(Artificial Neural Networks)
2. SVM(Support Vector Machines)
3. DNF(Disjunctive Normal Form)

Analysis and Design

Analysis of the system

Proposed Solution

Design of the proposed system

Results and Discussion

Conclusion and Future Work

References