EMERGING METHODS FOR EARLY DETECTION OF FOREST FIRES

SENSOR WITH AI DETECTS WILDFIRES

- Our BME688 sensor can detect **forest fires** before they develop into oprn fires by measuring various gases such as carbon monoxide and hydrogen.
- Dryad network is using our gas sensor BME688 to fight against climate change with the launch of **Silvanet**, its large-scale iot network for the ultra-early detection of wildfires.

CHARUMATHI V

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PROTECTING THE ENVIRONMENT BY PREVENTING WILDFIRES

- Trees are valuable carbon respostories ana play an impotant role for the climate.
- it take decades to reforest areas ravanged by wildfires.
- they are responsible for up to 20% of annual global CO2 emissions and endanger not only the lives of lives humans, but also of animals, and thus have a devastating impact on biodiversity.

HARSHINI S S

Charumathi V

EFFECT OF FOREST FIRES

- loss of valuable timber resources.
- degradation of catchment areas.
- loss of biodiversity and extinction of plants and animals.
- loss of wildlife habitat and depletion of wildlife.
- loss of natural regeneration and reduction in forest cover.
- Global Warming.

PREMALATHA K

Charumathi V

BENEFITS OF FOREST FIRES DETECTION USING AI

- More dynamic and wider detection as compared to fixed sensor.
- reduction in cost.
- unreachable areas can now be controlled by MBSs.
- to dectect poaching, and monitor comprehensive animal deaths.
- proposed method are very convenient and can easily detect.

SOWMIYA S

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