|  |  |
| --- | --- |
| **Team ID** | **PNT2022TMID38300** |
| **Project Name** | **Emerging methods for Early detection of forest fires** |
| **Team Leader**  **Team Member**  **Team Member**  **Team Member** | **Saranya P**  **Shruthi P**  **Priyadharshini R**  **Krishnaveni R** |

Emerging Methods for Early Detection of Forest Fires

Objective

* AI engineers are beginning to apply machine learning technology to issues of environmental justice and crisis.
* AI technology is instrumental in interpreting large volumes of visual data, and there are numerous ways in which visual data can be leveraged to prevent wildfires.
* Using AI to reduce the time it takes to alert forestry departments of new fires, with hopes of stifling them before they have spread.
* It helps local governments plan evacuations and extracts important information for civilians curious about the fate of their homes and communities.
* AI engineers have been slow at applying their technology to environmental issues.
* Geospatial AI is slowly being leveraged in California and elsewhere in addressing climate change and its consequences.
* Applications of AI in fighting wildfires are new and it is difficult to measure their impact.
* It indicates a growing intersection of AI and environmental monitoring, a space that might one day be instrumental in slowing climate change.

Existing detection methods such as satellite and optical systems can cover large areas; satellite systems identify infrared signatures, while optical systems look for smoke plumes.

