

Project Design Phase-I
Proposed Solution Template

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|---------------|----------------------------------------------|
| Date | 05 October 2022 |
| Team ID | PNT2022TMID28445 |
| Project Name | Project - Early forest fire detection System |
| Maximum Marks | 2 Marks |

Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

| S/ no | Parameter | Description |
|----------|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Problem Statement (Problem to be solved) | A forest fire risk prediction algorithm, based on support vector machines, is presented. The algorithm depends on previous weather conditions in order to predict the fire hazard level of a day. |
| 2 | Idea / Solution description | Use computer vision methods for recognition and detection of smoke or fire. |
| 3 | Novelty / Uniqueness | Real time computer program detect forest fire in earliest before it spread to larger area. |
| 4 | Impact on society | Blocked roads and railway lines, electricity, mobile and land telephone lines cut, destruction of homes and industries. |
| 5 | Business Model (Revenue Model) | The proposed method was implemented using the Python programming language on a Core i3 or greater (CPU and 4GB RAM.) |
| 6 | Scalability of the Solution | Computer vision models enable land cover classification and smoke detection from satellite and ground cameras |