Problem-Solution

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- **IBM**

- Can be only used in laptop or personalcomputer

  - **CUSTOMER SEGMENT(S)**

    6. CUSTOMER LIMITATIONS

Real time detection of forest fire Alerting the officers via messages
EG. BUDGET, DEVICES

5. AVAILABLE SOLUTIONS PLUSES & MINUSES

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- People are using sensors to detect the fire ,but this case is not possible for large acres of forest.
- we proposed a platform of Artificial IntelligenceThe computer vision methods for recognition and detection of smoke and fire, based on the still images or the video input from the cameras
  - Many forest fires start from natural causes such aslightning which set trees on fire.
    - High atmospheric temperatures and dryness (low humidity) offer favorable circumstance for afire to start.
    - Forest area cover large acres of land so it is not easy to find the fire easily
    - **PROBLEMS / PAINS** + ITS FREQUENCY

PR

9. PROBLEM ROOT / CAUSE

RC

- Compare the existing product in the market
- Ask for expert opionion
  - **BEHAVIOR** + ITS INTENSITY

BE

-
  - Due to increase vulnerability of forest fire
  - Difficult to control the forest fire after it spread to wide area
  - **TRIGGERS TO ACT**

- Before : Stress,Helplessness,frustration After   : Less stress,sense of relief ,feeling
  - smart,satisfaction
  - **EMOTIONS** BEFORE / AFTER

TR

Fetch the data from cctv or drones Image preprocessing
Image classification using CNN modelVideo Analysis using opencv
If fire detected, send alert messages

EM

10. YOUR SOLUTION

SL

8. CHANNELS of BEHAVIOR

Extract online channels from BehaviorBlock

ONLINE

Extract offline channels from BehaviorBlock

OFFLINE

CH