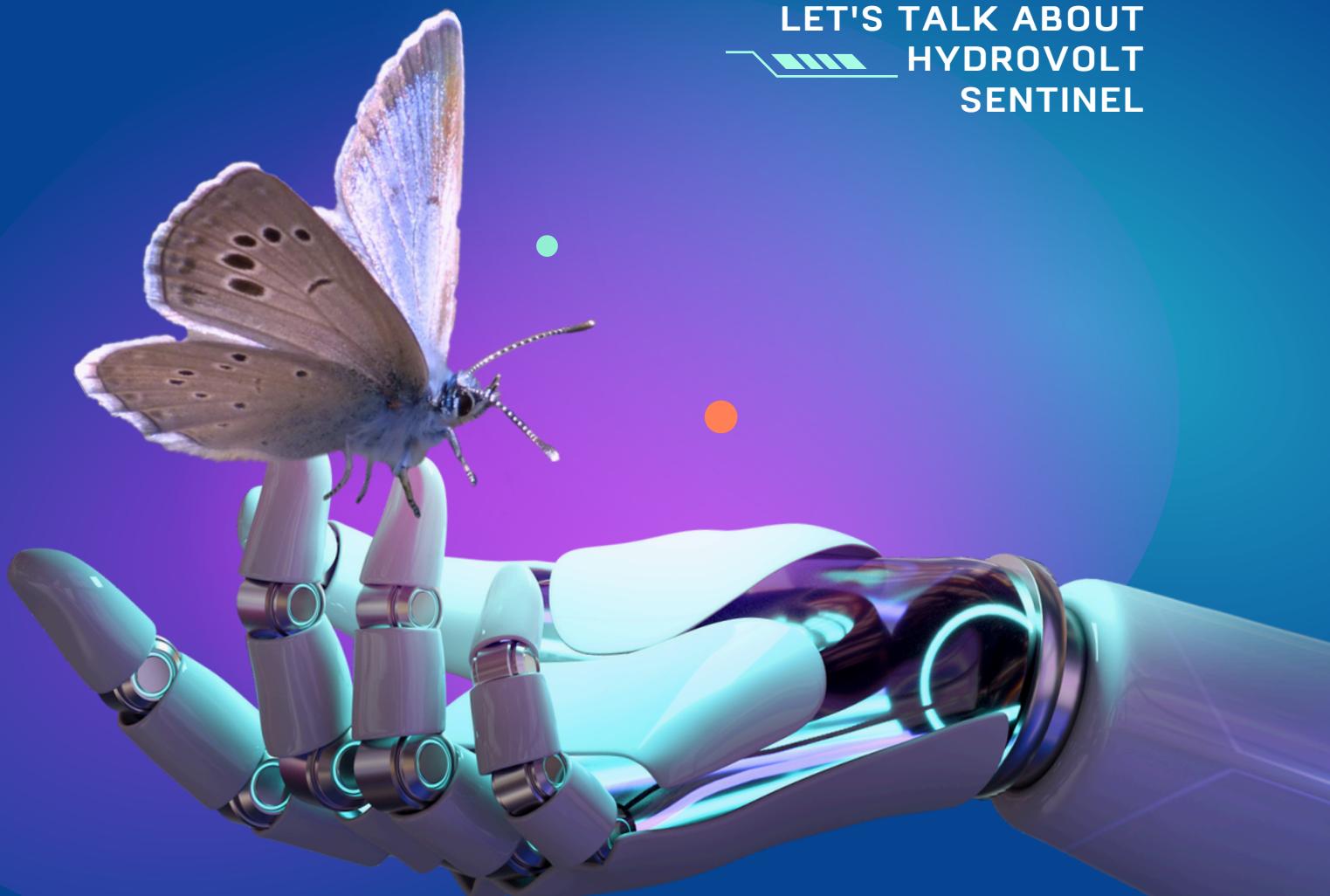


HYDROVOLT SENTINEL

LET'S TALK ABOUT
HYDROVOLT
SENTINEL



HYDROVOLT SENTINEL

★ NAME OF THE PROJECT:-

**HYDROVOLT
SENTINEL**

★ AUTHORS OF PROPOSAL :-

- 1. Mayush Jain - Project Manager**
- 2. Hirday Chauhan - Project Team Member**
- 3. Amarush Bhasin - Project Team Member**

HYDROVOLT SENTINEL

WHAT ARE THE SMART CITIES :-

A smart city integrates technology and data analytics to enhance urban living. By using IoT devices, AI, and advanced communication networks, these cities optimize infrastructure, services, and resources. Key features include efficient public transportation, energy management, waste reduction, and improved public safety. Smart cities also promote sustainability by minimizing environmental impact through smart grids, green buildings, and renewable energy. Citizens benefit from a higher quality of life with better access to services, real-time information, and more responsive governance. Ultimately, smart cities aim to create more efficient, livable, and sustainable urban environments.

HYDROVOLT SENTINEL

TRANSMISSION LINE FAULT DETECTOR

THE PROBLEM OF THE PROJECT AIMS TO SOLVE

1. **Corrosion:** Over time, exposure to weather elements can lead to rust and decay, especially in metal poles. This weakens the structure and can lead to failure.
2. **Weather Damage:** Severe weather conditions like storms, high winds, and heavy snow can cause physical damage to power poles, leading to outages and safety hazards.
3. **Pole Decay:** Wooden poles are susceptible to rot and insect damage, which can compromise their strength and stability.
4. **Vegetation Interference:** Trees and other vegetation growing near power poles can come into contact with power lines, potentially causing outages or fires.
5. Overlapping of wires causes blast
6. Fire in circuit
7. Cutted wires could cause a major accident

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TRANSMISSION LINE FAULT DETECTOR

SOLUTIONS FOR PROJECT⚡:-

- 1:IR sensor would detect overheating or fire caused in poles
- 2:if any wire is broken the electricity would shut down
- 3: if any wire overlaps than also shutdown

ADVANTAGES FOR PROJECT⚡:-

- A single circuit in one pole can accommodate multiple poles.
- Swift alarm response is imperative.
- Identifying defects should be straightforward.
- The risk of accidents is minimized.
- Consider incorporating high-voltage capacitors for larger surface areas.

HYDROVOLT SENTINEL

WATER LEVEL INDICATOR

PROBLEM OF AMBALA A SMART CITY IN FUTURE OF TANGRI

As denizens of Ambala, we have witnessed the wrath of floods, often triggered by the tumultuous overflow of the River Tangri that meanders through our lands. This deluge of water has, on numerous occasions, claimed homes and precious lives in its watery embrace. Such tragedies unfold due to the lack of timely warnings, exacting a toll on the souls dwelling in these realms. To combat this dire predicament, our fellowship has crafted a miniature marvel - a vigilant sentinel for rivers. Guided by the echoes of reality's challenges and a fervent desire to offer solutions, our creation stands as a testament to our dedication to safeguarding lives against nature's unpredictable whims.

HYDROVOLT SENTINEL

WATER LEVEL INDICATOR

SOLUTIONS FOR PROJECT⚡ :-

1. As the level arises alarm will be working all will be informed
2. Government could take quick action
3. People Will Be Informed Before The Flood Situations

ADVANTAGES FOR PROJECT⚡ :-

- Provides timely alerts about rising water levels, allowing for early action to mitigate the impact of floods.
- Helps in monitoring water levels for better management of water resources, including planning for irrigation, drinking water supply, and hydroelectric power generation.

HYDROVOLT SENTINEL

★ *Students Building Up Projects*



LINK FOR THE VIDEO :- https://drive.google.com/file/d/1Cn9btE8GN3ipAnNfdGyk_2_fB5S3hFbv/view

