

**Project Design Phase-I**  
**Proposed Solution Template**

Date	23 <sup>rd</sup> October 2023
Team ID	PNT2022TMID591975
Project Name	Project – Crime Vision
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)	<p>Crime identification using deep learning is a cutting-edge approach that leverages deep learning techniques to analyze images and video footage from crime scenes or incidents for the purpose of classifying and identifying various types of crimes. Our algorithms help in ensuring accurate crime identification crucial for public safety and justice. This innovative approach supports effective crime classification, enhancing surveillance and investigations.</p>
2.	Idea / Solution description	<p>The objective of this project is to create a strong system that can examine photos and video evidence from incidents or crime scenes. Based on the behaviours, the system must to be able to precisely detect and categorize various types of crimes portrayed. Applications for this technology will arise in a number of criminal justice and legal fields. enforcement, which covers forensic examination, surveillance, and crime scene investigation.</p>
3.	Novelty / Uniqueness	<p>Our project uses deep learning in a novel way to quickly and accurately identify different kinds of crimes using visual data. This innovative tool for law enforcement includes automation, ethical considerations, and data-driven insights. A feedback loop guarantees ongoing development, which makes it an effective and cutting-edge instrument for criminal justice and law enforcement.</p>

4.	Social Impact / Customer Satisfaction	<p><b>Social Impact:</b></p> <ul style="list-style-type: none"> <li>• Improves societal safety by elevating public security measures.</li> <li>• Enhances response speed, mitigating potential harm.</li> <li>• Streamlines resource distribution, optimizing efficiency in investigations.</li> <li>• Equips investigators with cutting-edge tools, empowering them in crime resolution.</li> <li>• Efficiently allocates resources, improving the overall investigative process.</li> </ul>
		<p><b>Customer Satisfaction:</b></p> <ul style="list-style-type: none"> <li>• Guarantees precision in crime identification, fostering trust and satisfaction.</li> <li>• Enhances operational efficiency by delivering prompt, real-time responses.</li> <li>• Provides intuitive interfaces for user convenience.</li> <li>• Adapts and evolves continuously to maintain sustained effectiveness over time.</li> </ul>
5.	Business Model (Revenue Model)	<p><b>Business Model: Crime Identification Service</b></p> <ol style="list-style-type: none"> <li>1. Subscription Licensing: Law enforcement agencies pay for access tiers based on usage and features.</li> <li>2. Support and Maintenance: Provide ongoing technical support, updates, and maintenance.</li> <li>3. Partnerships and Collaborations: Integrate with existing law enforcement platforms.</li> <li>4. Data Security Services: Provide compliance-related services.</li> </ol>
6.	Scalability of the Solution	<p><b>Scalability Strategies</b></p> <ul style="list-style-type: none"> <li>• Parallel Processing: Distribute tasks across multiple channels to expedite processing.</li> <li>• Cloud Infrastructure: Employ scalable cloud platforms for flexible expansion .</li> <li>• Load Balancing: Guarantee an equitable distribution of workloads.</li> <li>• Monitoring and Metrics: Monitor performance metrics to make proactive adjustments for optimization.</li> </ul>

		<ul style="list-style-type: none"><li>• <b>Modular Architecture:</b> Design systems in modular components for seamless scalability.</li><li>• <b>Automated Scaling:</b> Implement automatic adjustments to accommodate varying workloads efficiently.</li></ul>
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