

Project Design Phase-I
Proposed Solution Template

Date	23 October 2023
Team ID	Team-592460
Project Name	Crime Vision: Advanced Crime Classification Using Deep Learning
Maximum Marks	2 Marks

Proposed Solution Template:

Sl. No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	The problem addressed is the inefficiency in crime classification and analysis hindering law enforcement's abilities to respond effectively. Traditional crime classification and analysis methods are often time-consuming, labor-intensive, and subject to human bias and error. There is a need for a more advanced automated solution to enhance the accuracy and efficiency of the problem.
2.	Idea / Solution description	The solution leverages deep learning techniques to automate the classification and analysis of crime scenes and surveillance footage. It involves the development of deep neural networks trained on vast image datasets related to different types of crimes. This model can then process real-time or historical data to classify criminal activities, identify patterns, and provide valuable insights to law enforcement agencies
3.	Novelty / Uniqueness	The uniqueness of Crime Vision lies in the use of deep learning algorithms to understand complex visual data. Unlike traditional methods, which rely heavily on human interpretation, our solution offers consistent, real-time analysis. It can detect subtle patterns and anomalies that might be easily missed by human operators, leading to more accurate and timely results
4.	Social Impact / Customer Satisfaction	Crime Vision can help make the community safer by providing law enforcement agencies with a powerful tool for crime classification. It has several social impacts: <ul style="list-style-type: none">• Improved crime prevention by identifying patterns and trends, law enforcement can take proactive measures to prevent criminal activities• Enhances investigation leading to higher conviction rates• Reduces the impact of human bias
5.	Business Model (Revenue Model)	Crime Vision can operate under a subscription-based revenue model, where law enforcement agencies pay a recurring fee to access the platform and AI capabilities. Additional revenue streams could include: <ul style="list-style-type: none">• Per-use fees for running custom analyses• Add-on modules and features offered for

		<p>additional fees</p> <ul style="list-style-type: none"> Professional services for integration, customization, and ongoing maintenance
6.	Scalability of the Solution	<p>The deep learning algorithms powering Crime Vision are highly scalable and capable of analyzing increasing volumes of visual data. The solution can be deployed on-premises or in the cloud, with the ability to scale up computational resources as needed.</p> <p>Other scalability factors include:</p> <ul style="list-style-type: none"> Expanding the image training datasets to cover new crime types, scenarios, and edge cases Adding capabilities to process data from multiple sources like body cams, surveillance footage, etc. Enhancing the AI engine to extract deeper insights over time Creating APIs for integration with other law enforcement systems Developing mobile apps to allow access from anywhere <p>The modularity of the solution allows new capabilities to be added to meet evolving law enforcement needs. These scalability features make Crime Vision adaptable for agencies of any size.</p>