

Project Design Phase-I
Proposed Solution Template

Date	19 NOVEMBER 2023
Team ID	Team-591694
Project Name	Crime Vision: Advanced Crime Classification With Deep Learning
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)	Law enforcement agencies encounter challenges in effectively addressing and preventing criminal activities. Manual processes and outdated crime analysis methods lead to inefficiencies, delays, and the potential for errors. The project aims to revolutionize crime classification by implementing advanced deep learning techniques, enabling automated data analysis, intricate pattern identification, and real-time crime investigation to enhance public

		safety.
2.	Idea / Solution description	Our solution involves the development of a sophisticated deep learning model trained on a diverse dataset of crime scenes and incidents. This model utilizes advanced neural networks, including convolutional neural networks (CNNs), to analyze images and video footage. By recognizing patterns and features relevant to different types of crimes, the system provides law enforcement with a powerful tool for accurate and rapid crime classification.
3.	Novelty / Uniqueness	The novelty lies in the utilization of state-of-the-art deep learning techniques, specifically CNNs, for image and video analysis in crime classification. Unlike traditional methods, our model can automatically learn intricate patterns and associations within visual data, enabling it to distinguish between various crime types effectively. This approach enhances the accuracy and efficiency of crime classification.
4.	Social Impact / Customer Satisfaction	Implementing this technology instills a sense of security and trust within communities. Rapid and accurate crime resolution leads to greater public satisfaction, fostering a safer living environment. Beyond solving crimes, the system contributes to proactive crime

		prevention, creating a positive impact on the social fabric by building confidence in law enforcement capabilities.
5.	Business Model (Revenue Model)	The proposed business model involves offering a subscription-based service to law enforcement agencies. The subscription provides access to the advanced crime classification platform, enabling agencies to upload and analyze diverse data sources, including crime scene images and surveillance footage. Subscription fees can be structured based on the size of the agency, encouraging scalability, with potential for additional revenue through premium features like real-time analysis and trend prediction.
6.	Scalability of the Solution	Scalability is a key focus, ensuring that the system can seamlessly adapt to the evolving landscape of criminal activities. The modular design allows for easy integration of new features and accommodates updates to the crime classification model. As law enforcement identifies new patterns or crime types, the system can be trained with fresh data, ensuring continuous improvement and scalability.