# Crime Vision: Advanced Crime Classification With Deep Learning

## OPEN SOURCE FRAMEWORKS:

There are several open-source frameworks available for crime classification using deep learning. These frameworks provide a range of tools, libraries, and pre-trained models that can be utilized for building crime classification systems. Here are some popular open-source frameworks for crime classification:

### 1. TENSORFLOW:

- TensorFlow is a widely-used open-source deep learning framework developed by Google. It provides a comprehensive ecosystem for building and deploying deep learning models. TensorFlow offers flexible APIs for constructing neural networks, efficient model training, and model serving capabilities. Its extensive community support and rich set of pre-trained models make it suitable for crime classification tasks.

### 2. PYTORCH:

- PyTorch is another popular open-source deep learning framework, developed by Facebook's AI Research lab. It provides a dynamic computational graph and an intuitive interface, making it easy to develop and debug deep learning models. PyTorch's extensive library, TorchVision, includes pre-trained models and tools for computer vision tasks, which can be beneficial for crime classification involving visual data.

### 3. KERAS:

- Keras is an open-source deep learning library that provides a high-level API for building neural networks. It can run on top of TensorFlow, Theano, or Microsoft Cognitive Toolkit. Keras offers an easy-to-use interface, enabling rapid prototyping of crime classification models. Its modular design and extensive community support make it a popular choice for deep learning projects.

**4. CAFFE:**

- Caffe is a deep learning framework developed by Berkeley Vision and Learning Center (BVLC). It is known for its efficiency in training deep neural networks. Caffe provides a command-line interface and a C++ API for building and training models. It has a repository of pre-trained models and a model zoo that can be leveraged for crime classification tasks.

**5. MXNET:**

- MXNet is an open-source deep learning framework supported by Apache. It offers a flexible and efficient programming interface for building neural networks. MXNet supports various programming languages, including Python, R, and Julia. Its dynamic computational graph, distributed training capabilities, and extensive model zoo make it suitable for crime