Automatic Number Plate Recognition

**Problem Definition:** Automatically recognizing the number of a vehicle from its number plate.

**Solution:** Implementation is divided into three stages:

* Input image
* Extract the plate region from the image
* Recognize the numbers from the extracted plate

**Existing techniques:** Convoluted Neural network and image processing technologies

**Relevant Papers:**

* [Automatic Number Plate Recognition System for Vehicle Identification Using Optical Character Recognition](https://doi.org/10.1109/ICETC.2009.54)
* [Multi-digit Number Recognition from Street View Imagery using Deep Convolutional Neural Networks](http://static.googleusercontent.com/media/research.google.com/en/pubs/archive/42241.pdf)

**Implementation Plan:**

* Language: Python
* Programming model: Standalone
* Libraries: TensorFlow, Numpy, OpenCV

**Group Information**

* Abhash Jain (ajain28)
* Abhishek Kumar Srivastava (asrivas3)
* Ajay Venkatakrishnan (avenka12)
* Darshan Bhandari (dbhanda)
* Deepak Gupta (dgupta22)
* Kamal Sharma (ksharma5)