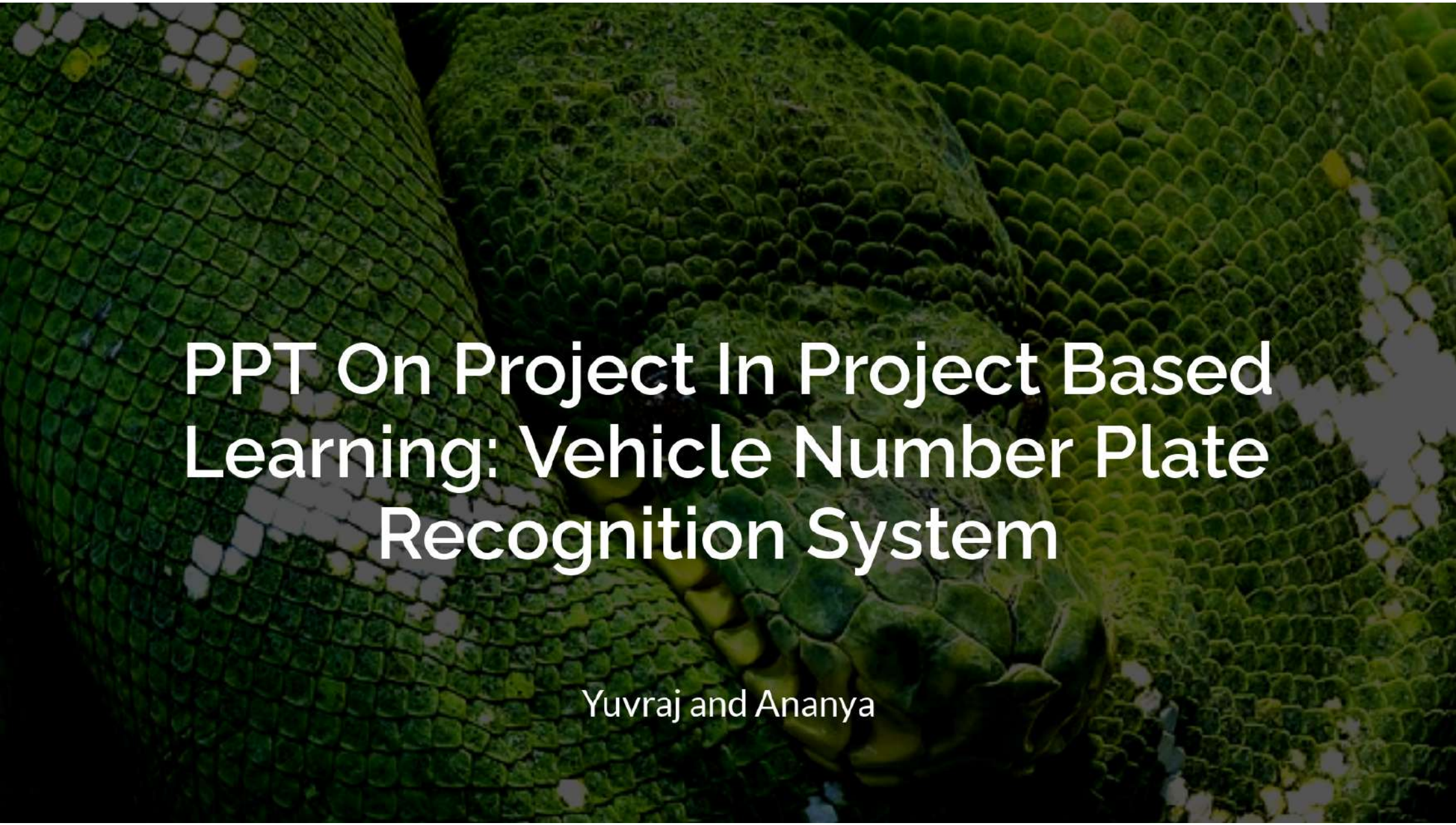
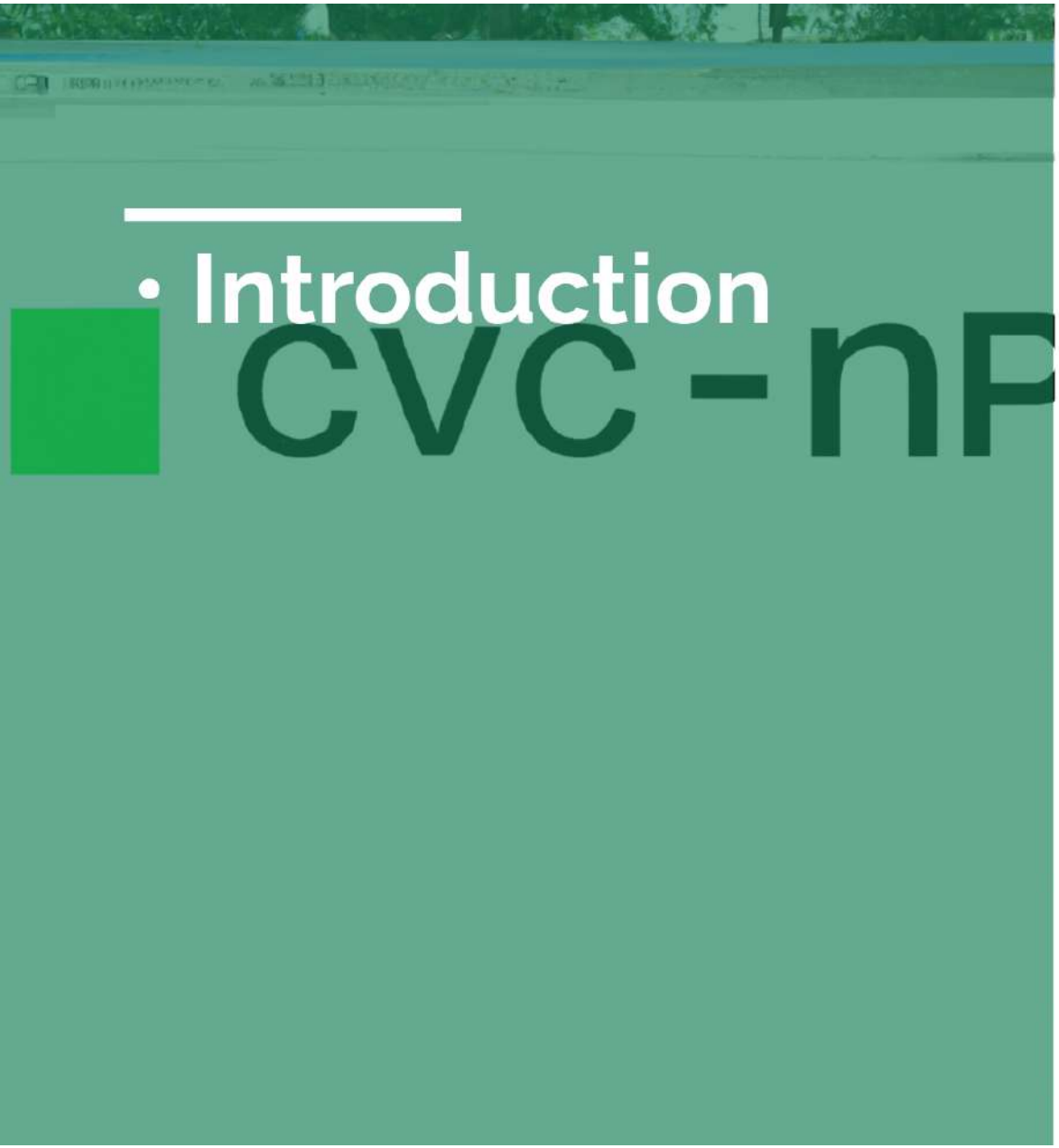


PPT On Project In Project Based Learning: Vehicle Number Plate Recognition System

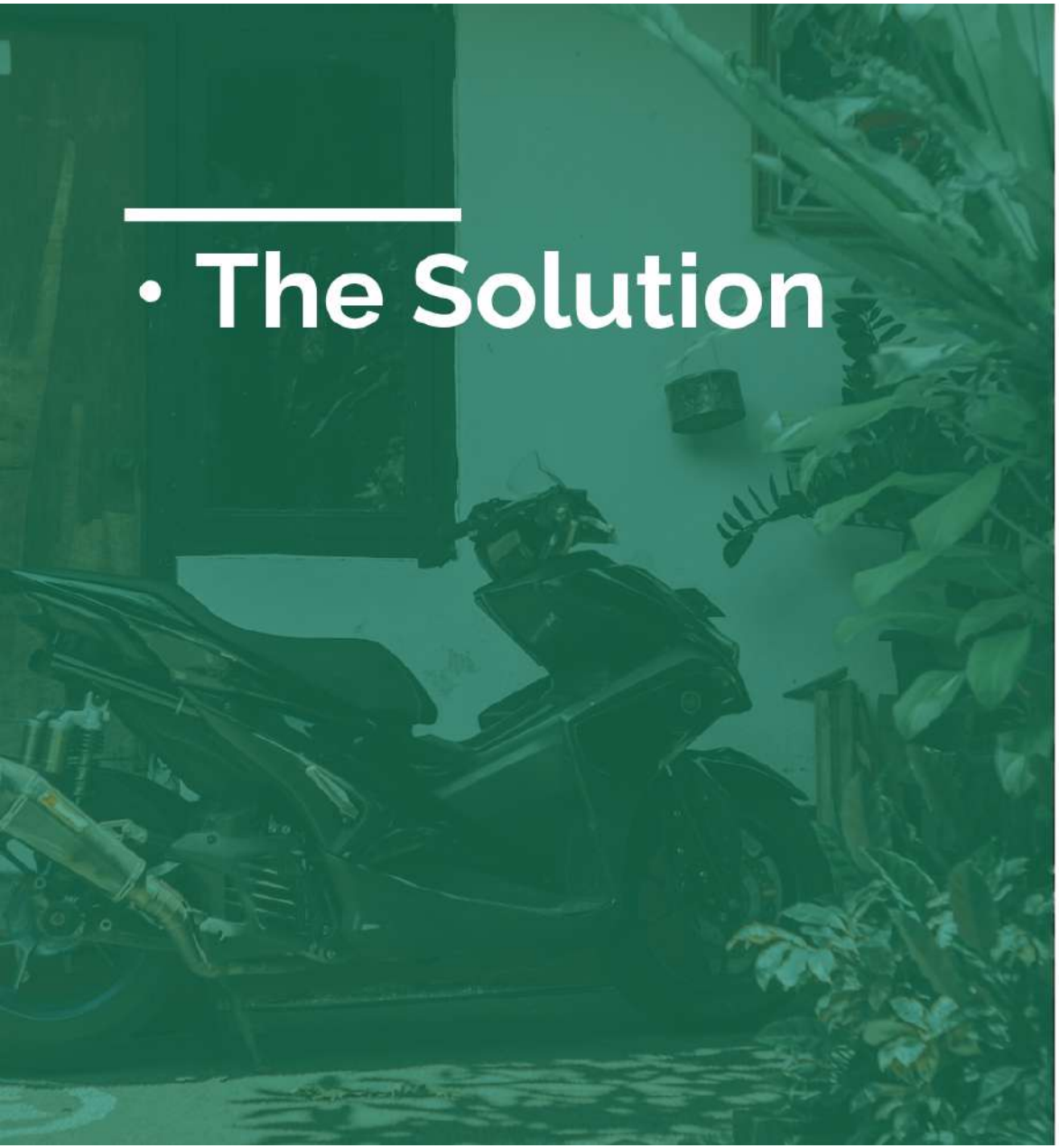
Yuvraj and Ananya



This PPT focuses on a project-based learning approach designed to build a Vehicle Number Plate Recognition System using Python and OpenCV. It provides an overview of the project's goals, methodology, and results.

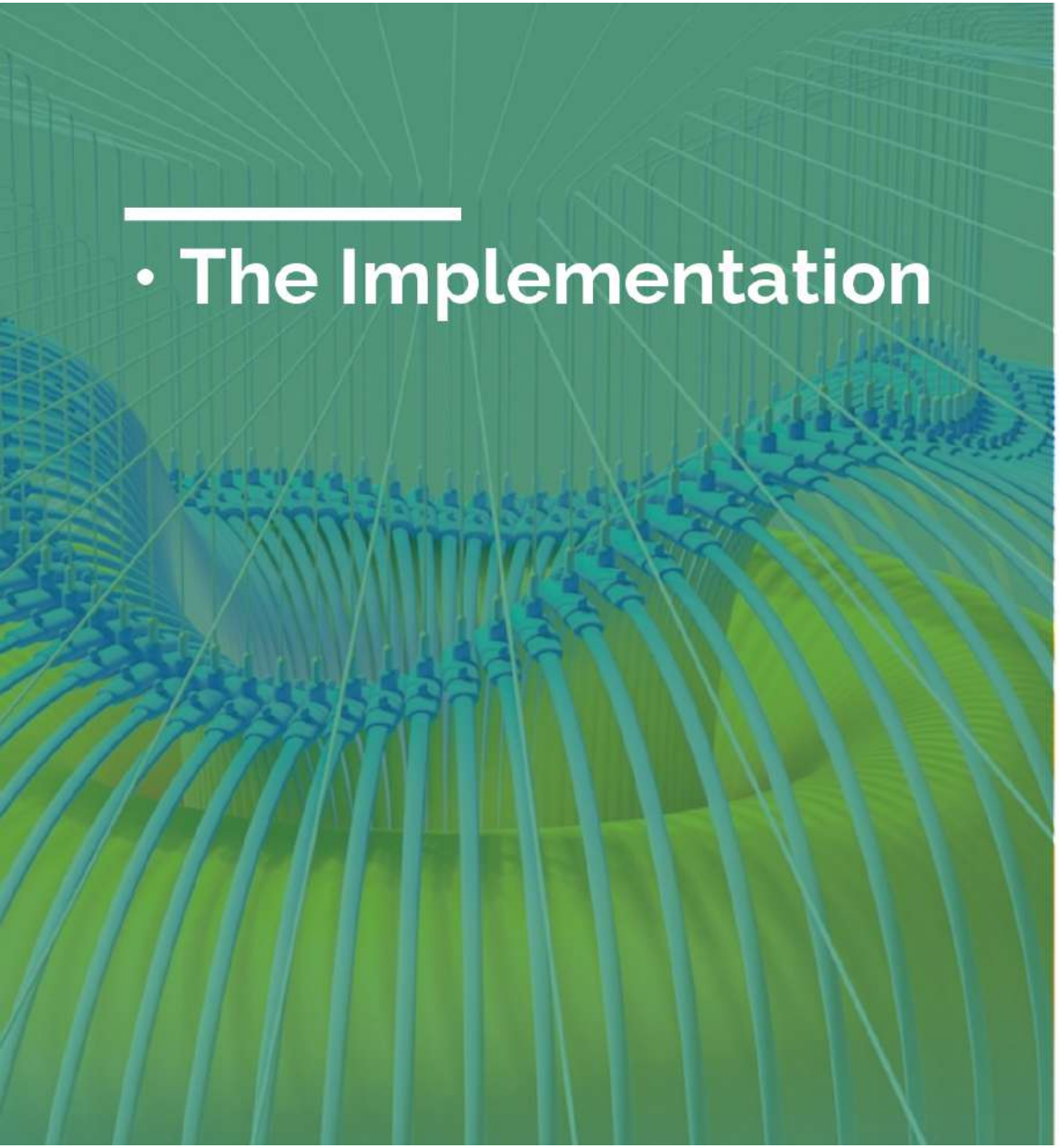
• The Problem

Vehicle Number Plate Recognition (VNPR) is a process of capturing the image of a vehicle's number plate, extracting it and then recognizing the number plate numbers. This is a challenging problem due to the differences in number plate shape and size, variations in fonts and style of lettering, orientation of the number plates and lighting conditions.



• The Solution

Python and OpenCV as Solutions
This project aims to apply image processing capabilities of Python and OpenCV to solve the problem of Vehicle Number Plate Recognition. The program will detect and extract the number plate from the image taken of vehicle and then extract the characters present in it.



• The Implementation

Implementation of this project will be done in Python as it has very good image processing capabilities. OpenCV (Open Source Computer Vision Library) a library of programming functions mainly aimed at real-time computer vision will also be used for facilitating the task of recognizing characters from the extracted number plate.

The Results

Results obtained from this project will give us the ability to read vehicle number plates and recognize their characters. If the system works as expected, it can save a lot of time and energy required for vehicle identification. Moreover, it can also be helpful in reducing the traffic violations and collecting illegal parking fees.