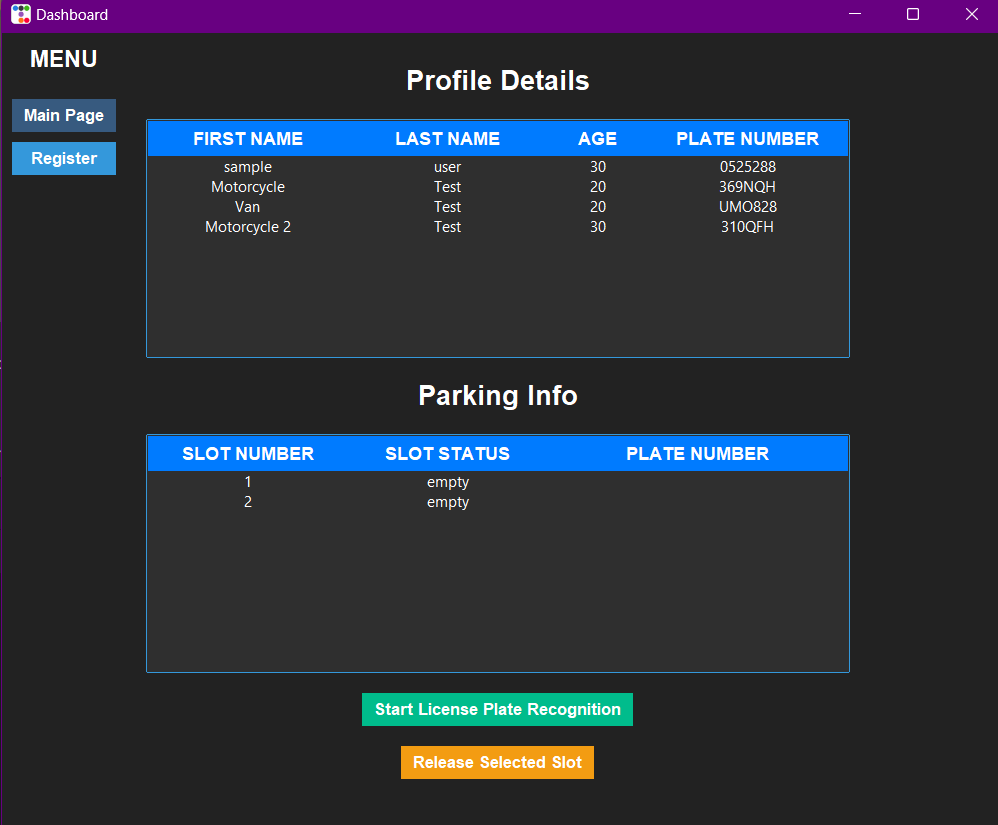
**CHAPTER IV**

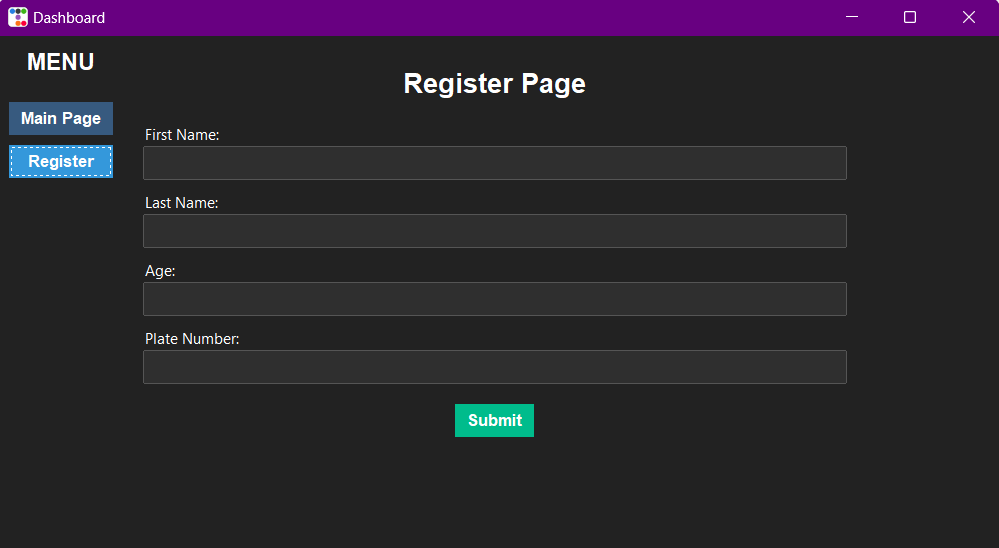
**PRESENTATION, ANALYSIS, AND INTERPRETATION OF DATA**

**4.1 The Developed System**

4.1.1 Hardware

4.1.2 Software

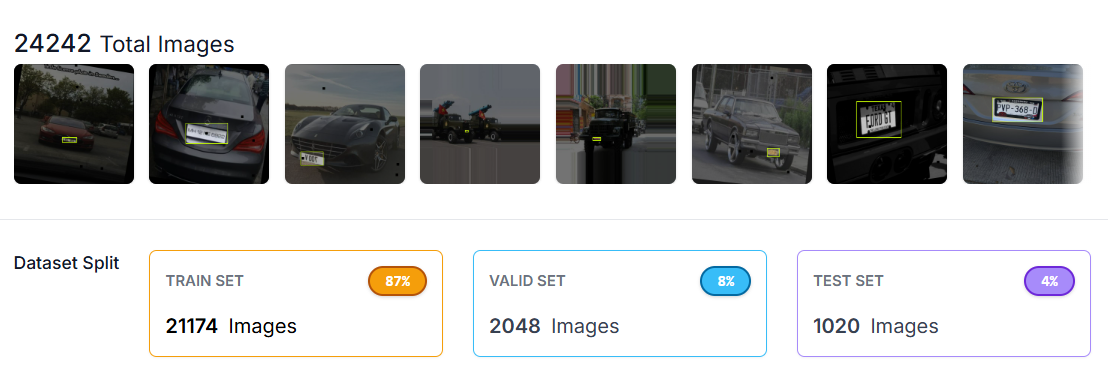




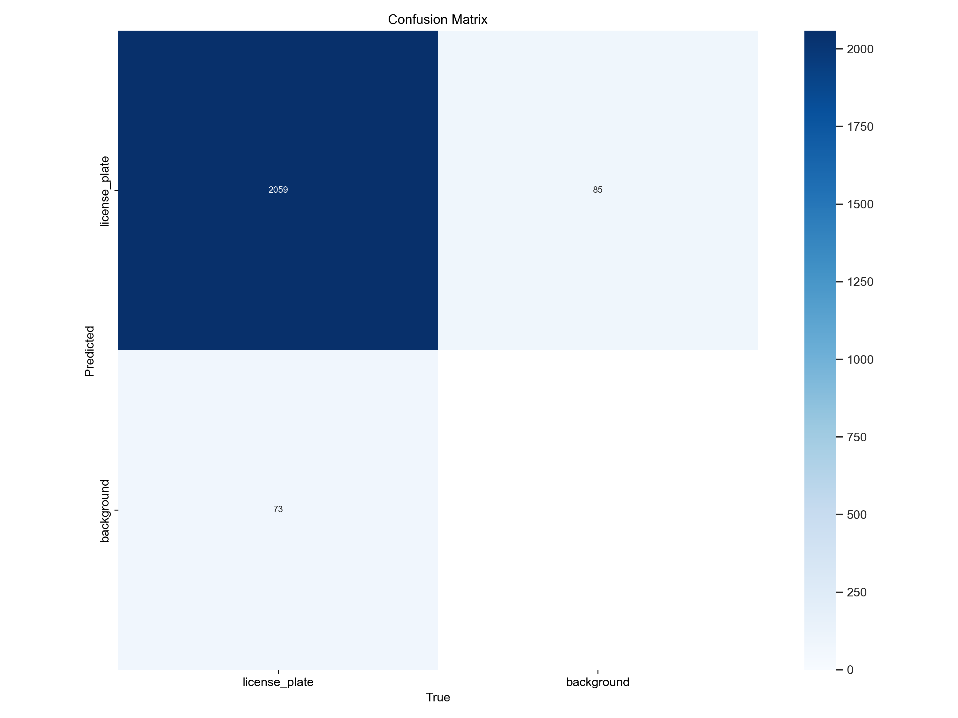
**4.2 Data Presentation**

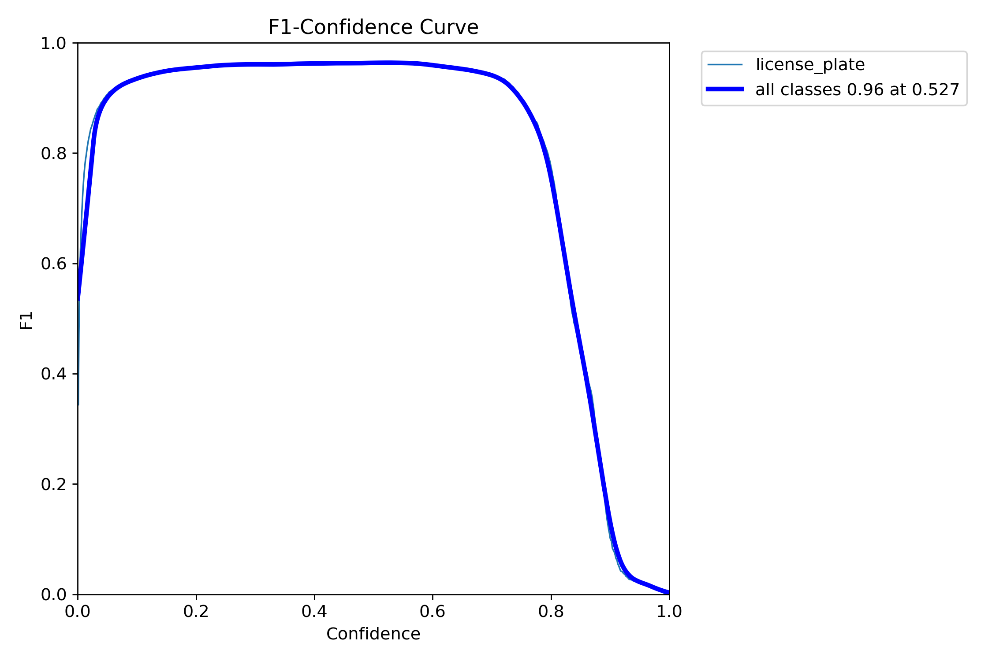
4.2.1 Verification and Testing Result

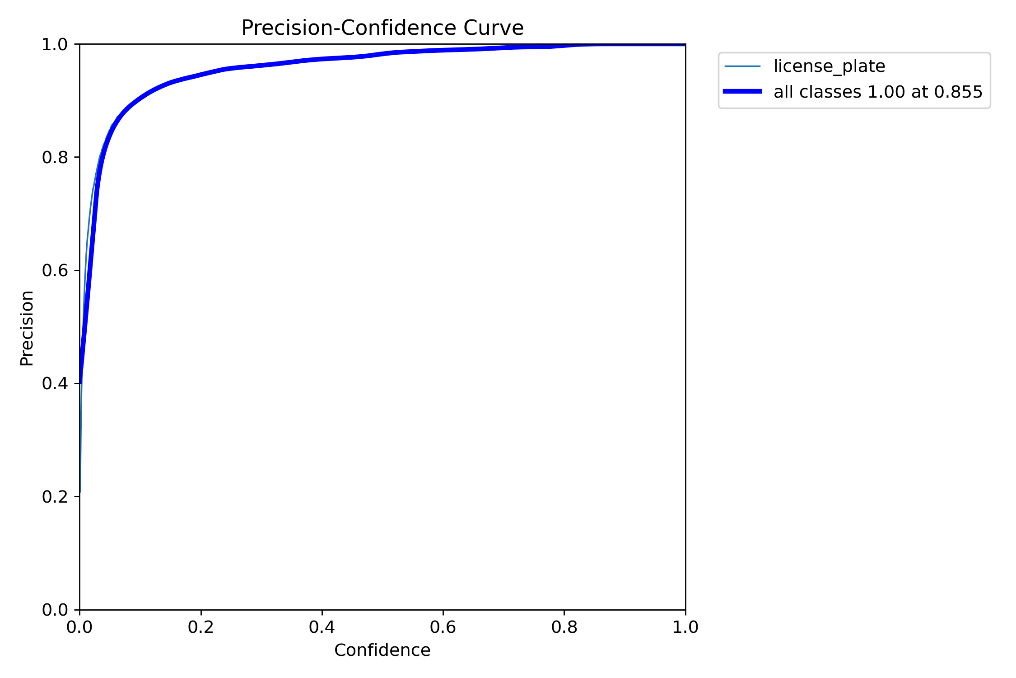
4.2.2 Validation of Trained Model

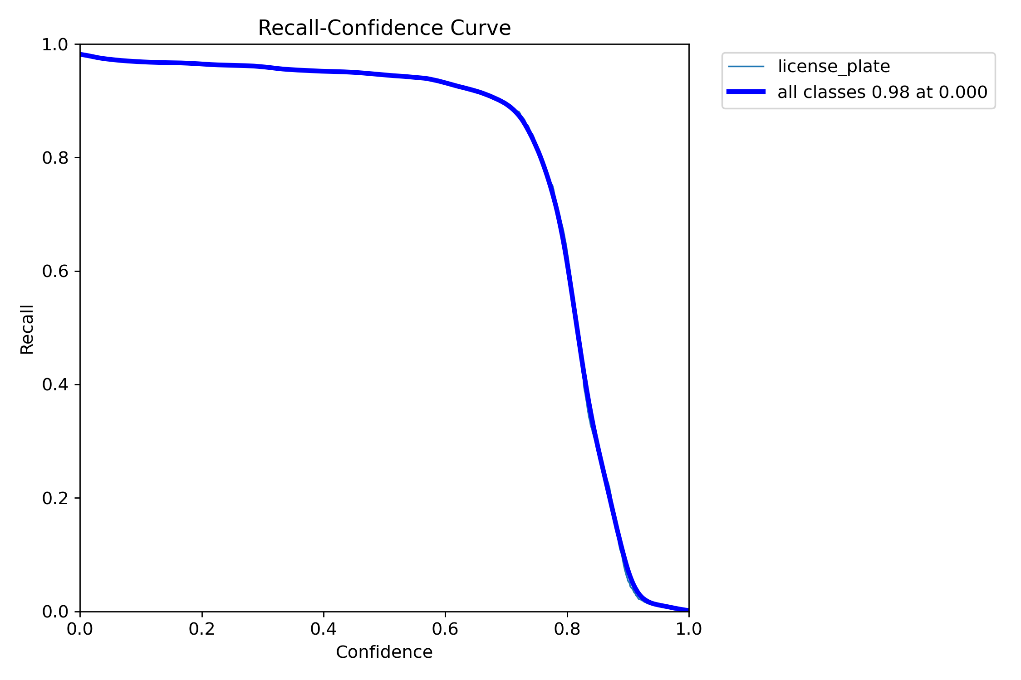
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The Figure *(number)* illustrates the total number of images utilized to train the license plate detection model using the YOLOv8 algorithm. The proponents employed software called “Roboflow,” which is a dataset management system that enables users to effortlessly upload, organize, and pre-process large datasets. The dataset was composed of 24,242 images of license plates and was divided into 3 sets. The train set comprises approximately 87% of the total images, the validation set consists of about 2,048 images, and the test set contains around 1,020 images.

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