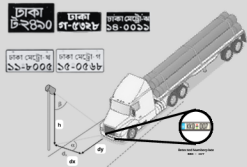# Smart Number Plate Recognition API (SNPRA)
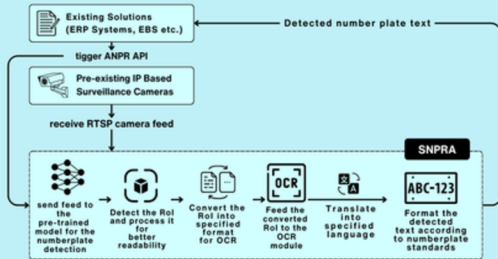
Motivation

Limited support for non-latin scripts

Expensive Traditional ANPR

An low-cost, scalable and efficent system for Non-latin number plate detection and number plate data extraction

Proposed Approach

Existing Solutions (ERP Systems, EBS etc.)

Detected number plate text

tigger ANPR API

Pre-existing IP Based Surveillance Cameras

receive RTSP camera feed

send feed to the pre-trained model for the numberplate detection

Detect the RoI and process it for better readability

Convert the RoI into specified format for OCR

Feed the converted RoI to the OCR module

Translate into specified language

SNPRA

Format the detected text according to numberplate standards

Application

Traffic Supervision

Automated Access Control

ensure authorized access in secured areas

Efficiency in logistics and transportation industry

Performance : Accuracy: 97% Detection Latency: ~1.5s