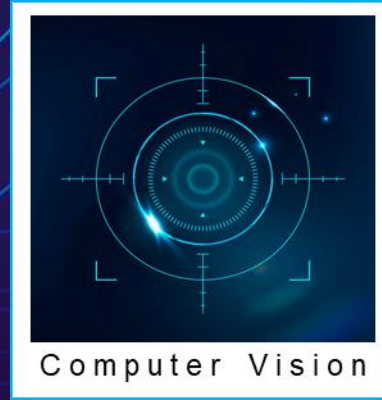




SHYENA
TECH YARNS

A Data Science Company



Case Study

Billing Automation using Face & Object Recognition

About the Client

The Client is a Japanese Billing Software Company

Business Problem

The customer wanted to automate billing in the cafeteria based on the food items in the food tray. The requirement was to detect person using face recognition and food ordered by recognizing the plate/bowl types in the food tray. There billing software was installed at a large automotive company cafeteria and the manual billing process was taking longer time for billing

Solution

The deep learning based solution for object recognition (plate/bowl) was developed using Python & Tensorflow. The deep learning model was trained on training data set (different sizes of plates, bowls) provided by customer. These models were integrated with restaurant billing software of our client. Evaluated model performance on high end cpu and gpu machine on cost, speed and accuracy parameters. Achieved face recognition and object recognition speed in less than 1 second with more than 90% accuracy

Outcome

The Client could reduce the billing time from average 2 mins to less than 5 seconds

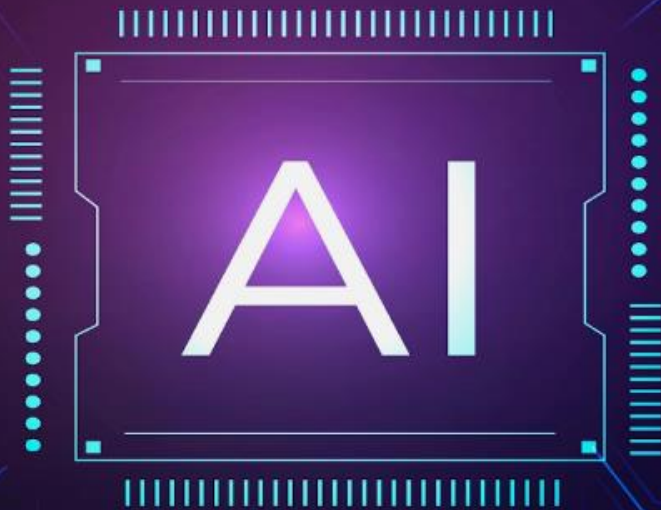
Technology Used

Python, Deep Learning, Face Recognition, OpenCV



SHYENA
TECHYARNS

A Data Science Company



Office Locations

Pune, India

3rd floor, Sargam Tower
Anna Saheb Chirmule
Path, Neel Kamal
Society, Karve Nagar,
Pune 411052

Middletown, USA

651 N. Broad St.
Suite 206,
Middletown,
DE
19709

London, UK

Suite 858,
Unit 3A,
34-35 Hatton Garden,
Holborn, London,
EC1N 8DX

Email us for your technology needs
contact@shyenatechyarns.com

Schedule an appointment on
www.shyenatechyarns.com