

A white and yellow service robot is shown from a low angle, holding a tray of food. The robot has a sleek, modern design with a white body and yellow accents. It is holding a white tray with a variety of food items, including lettuce, tomatoes, corn, and other vegetables. The background is a blurred indoor setting, possibly a restaurant or a public space. The text "KettyBot" is overlaid in a large, white, bold font, and "Flexible Multitasker" is overlaid in a smaller, white, bold font below it.

KettyBot

Flexible Multitasker

CONTENT

Product Introduction

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Customer Value

KettyBot

KettyBot is Pudu Technology's first delivery & reception robot that can perform several tasks --marketing, delivering, guiding at the same time. As a cost-effective and high-efficient product, KettyBot delivers a state-of-the-art experience in multiple complex scenarios.

- A minimize clearance of 55cm
- Walking AD display with 18.5" screen
- Easy deployment
- Work continuously for 8 hours



Product Introduction



Superior Mobility



Customized Advertisement



Customer Attraction



Greeting & Escorting



AI Voice Interaction



Multiple Delivery Modes



Automatic Recharging



Automatic Task Setting

Product Introduction



Three Key Advantages

Multiple Applicable Scenarios

With a compact, stylish design, complex and dynamic environments can be easily navigated

In-store Marketing

A robot with a 18' LCD screen, may display your ads to more audiences while strolling in store

A Versatile All-rounder

Meeting a wider range of needs and conducting tasks at the same time with improved adaptability, safety and accuracy, and an ultra-long battery life

3D Obstacle Avoidance Sensor

Two sets of RGBD cameras on the neck and the chassis form a 3D obstacle avoidance

18.5" Large Ad Screen

In-store marketing with a large ad display

Laser SLAM

Laser SLAM and visual SLAM dual-SLAM solution

Independent Suspension

Auto-level independent linkage suspension system with high-efficiency on bump avoidance

Visual Camera

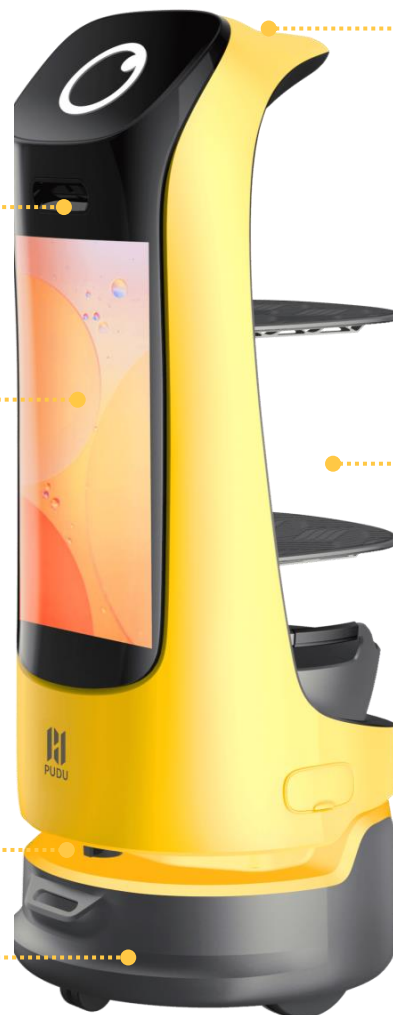
The infrared camera on top of KettyBot provides real-time V-SLAM positioning and navigation

Multi-functional Compartment

Two trays and a collecting box cooperate with each other to meet a variety of usage scenarios

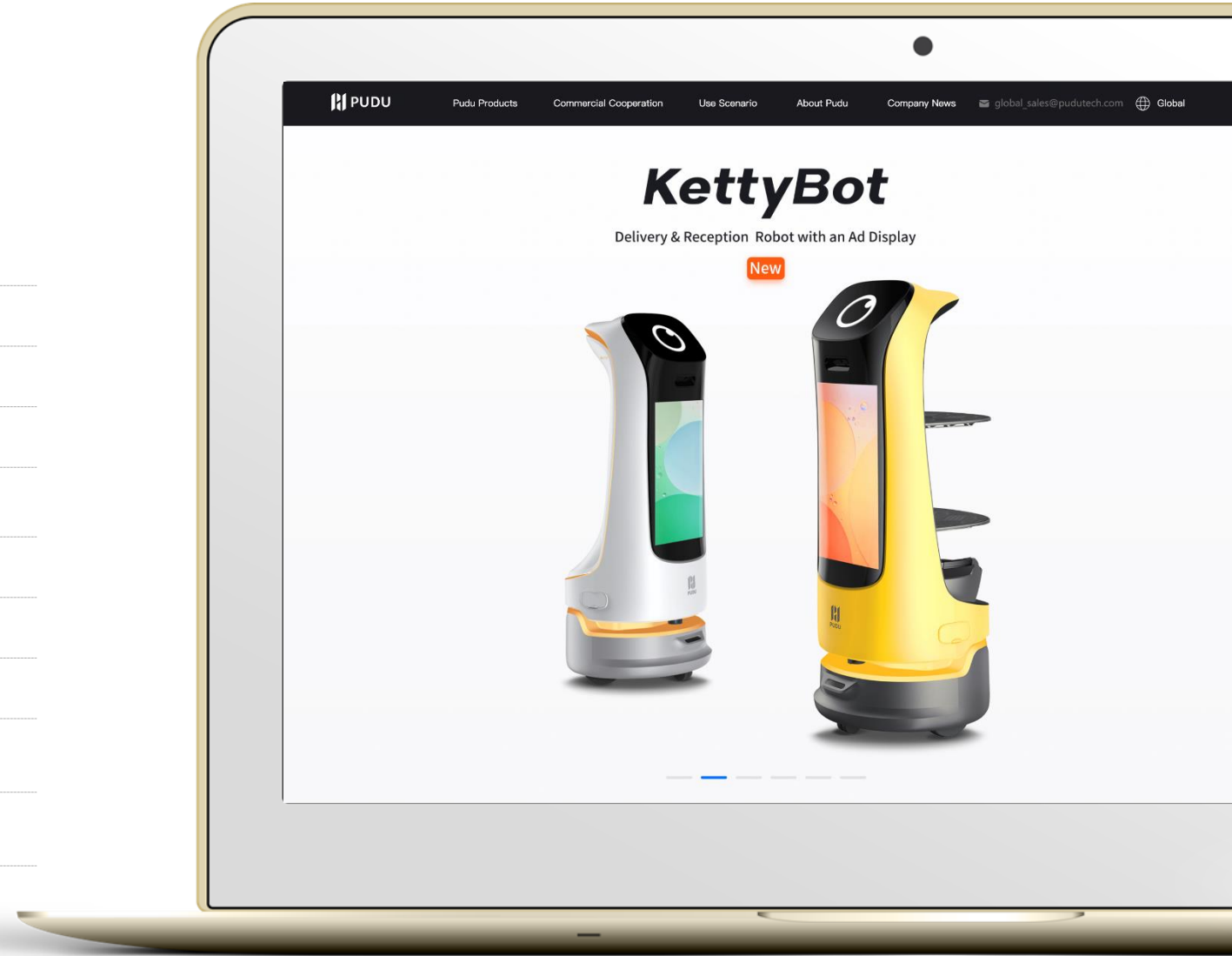
The Removable Rear Cover

KettyBot features two forms enabled by the removable trays and rear cover



Product Specification

Machine Dimension	435*450*1120mm
Machine Weight	38KG
Carrying Capacity	30KG
Battery Capacity	25.6Ah
Battery Life	>8h
Cruise Speed	Max 1.2m/s
Charging Time	4.5h (Automatic Recharging)
Obstacle Negotiation Height	Max 7mm
Crossing Width	≥55cm
Climb Angle	≤5°



Multiple applicable scenarios

With a minimize clearance at **55 cm**, KettyBot is specially designed for complex and dynamic environments.



Powered by PUDU advanced SLAM algorithm, KettyBot supports laser and visual dual SLAM positioning in order to adapt to more scenarios. 2* RGBD depth camera, provide KettyBot with the strongest 3D perception. Intelligent route planning, the optimal route to perform tasks is selected based on the operating environment.

**Meeting the needs of different complicated scenarios:
restaurants, cafes, bars, barbecue shops, hotels, gyms, hospitals etc.**

In-store Marketing



18.5" Large Ad Display

- The 18.5" large ad screen can display promotional video or pictures, providing a more eye-catching approach for marketing.
- Centered ad display perfectly adapts to the customer's angle of view, while maintaining the design aesthetic of the robot.
- KettyBot is not only attractive to adults but also to children, making it ideal to impress the whole family.

In-store Marketing

Customized Advertisement

- PUDU Business Management Platform offers the flexibility to customize the content presented on the ad display
- The ad playlist can be easily generated, with customer-defined frequency and the sequence of the ads



A Versatile All-rounder

Two Forms for Greater Versatility

KettyBot features two forms enabled by the removable trays and rear cover*. Our customer may select the form of robot based on needs.

*The rear cover needs to be purchased additionally.



A Versatile All-rounder

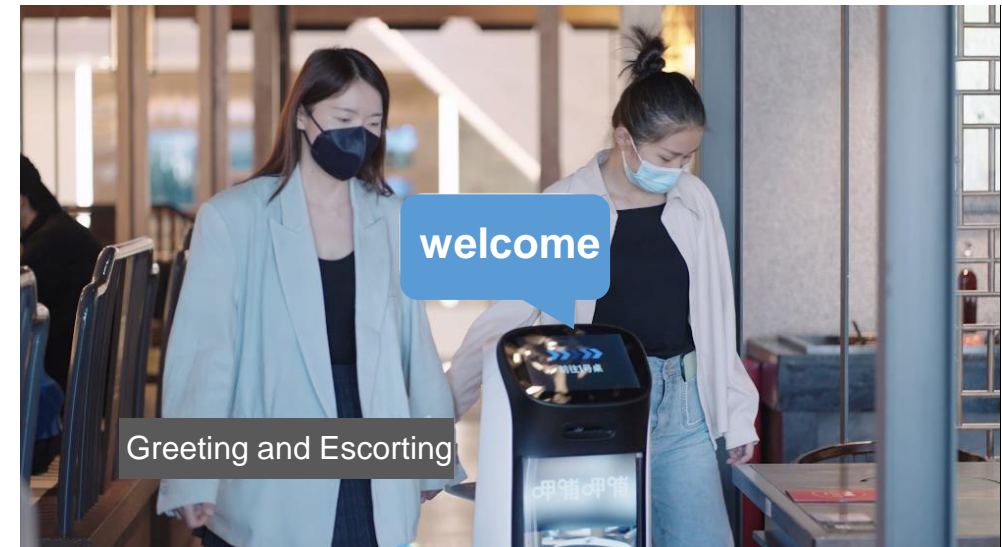
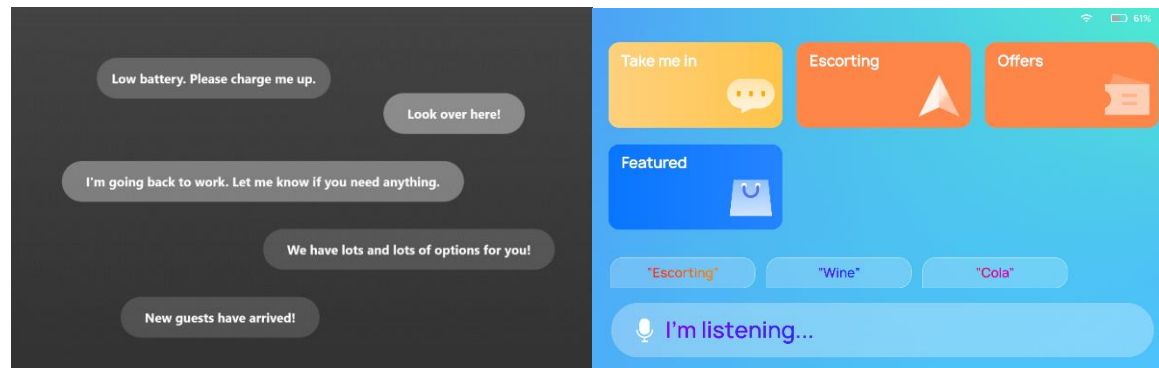
Customer Attraction

Enhanced Voice Interaction

- The new voice interaction module integrates 360° sound localization.
- Exclusive situational dialogues with cutting-edge echo cancellation, noise suppression, and reverberation elimination technology.
- Say the word "hey pudu" to wake-up AI voice interaction
- Support a variety of human-robot dialogues

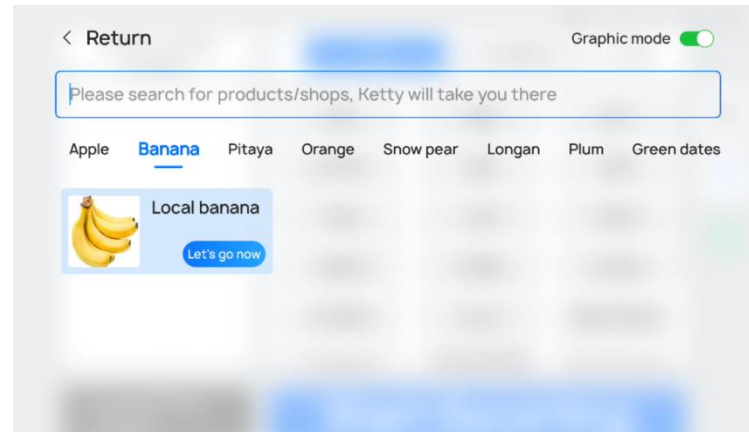
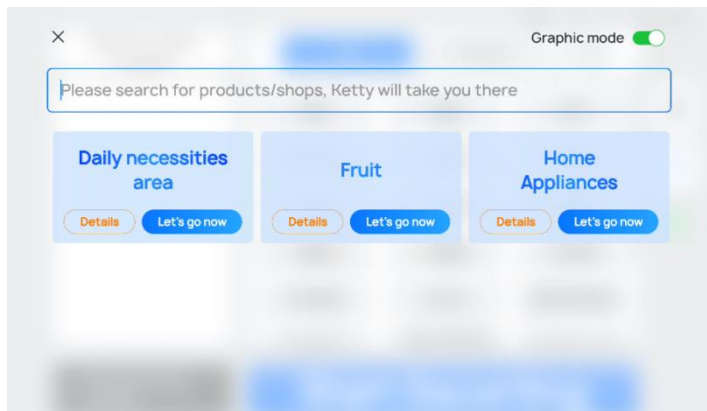
Greeting & Escorting

- The rear cover of KettyBot features a minimalist, streamlined design that makes it more compact.
- With autonomous path planning, the robot can lead customers to their tables in the optimal path, providing improved customer experience and reducing waiter workload



A Versatile All-rounder

New Guiding Mode: Search & Guide



- By searching words or clicking pictures, customers may look for the items or the store location they need, then KettyBot will guide them to pick up point or stores.

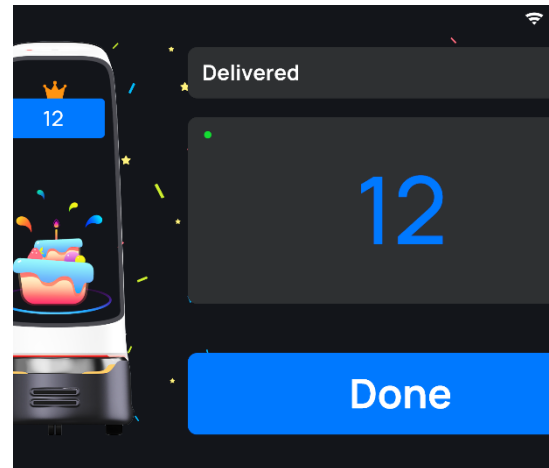
Make it easier for customers to use KettyBot.

A Versatile All-rounder

Multiple Delivery Modes

Multi-table Delivery

Multiple tables can be served in one run with accurate positioning and optimal path planning.



Birthday Mode

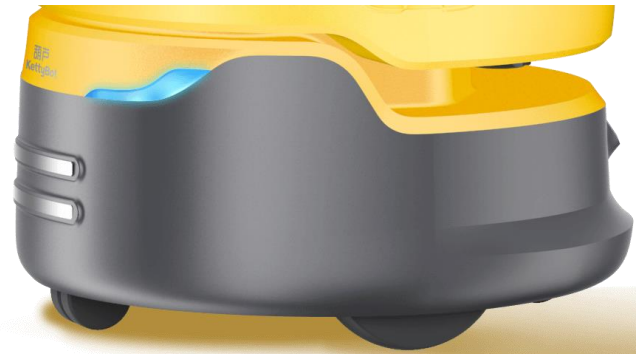
KettyBot can deliver birthday cakes and sing birthday song, giving customers a strong sense of happiness and satisfaction.

Cruise Mode

KettyBot can cruise in specific areas to provide customers with free snacks, drinks and promotional flyers.



A Versatile All-rounder



Stabilized Delivery

- Upgraded automobile-level adaptive suspension with latest shock absorbing technology, greatly improves the stability of the robot's delivery, and supports the robot to deliver dishes with food decor, porridge, soups and drinks while reducing spills.
- KettyBot can deliver more varieties of meals and beverage.

Ultra-long battery life

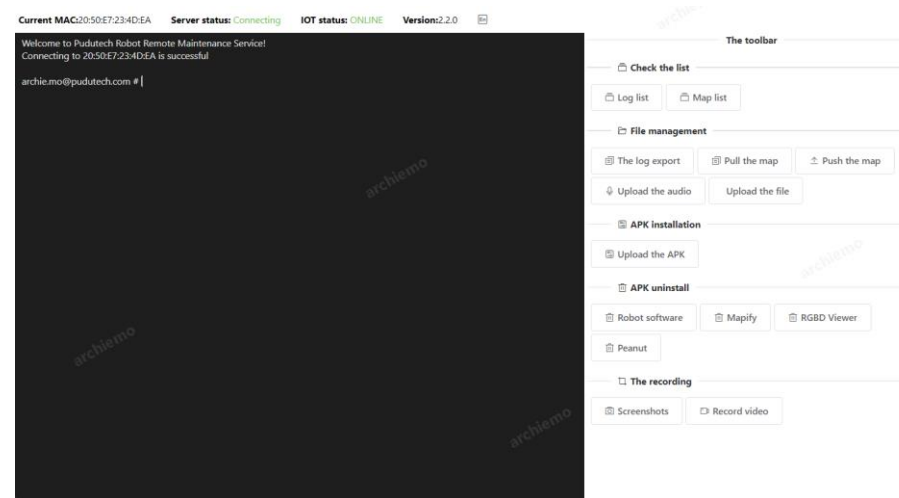
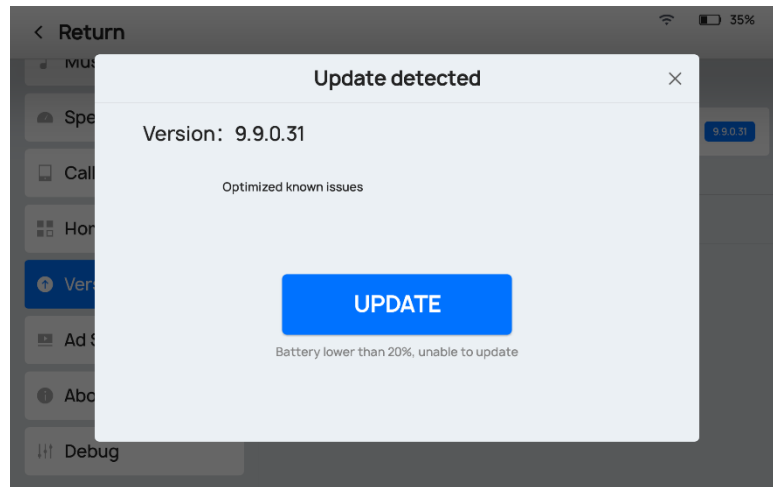
Ultra-long battery life for all-day-long service.

- Battery Capacity: 25.6Ah
- Battery Life: **>8H**
- Automatic Recharging: KettyBot automatically provides a voice alert and UI notification when the battery is low, and returns to the docking station* simultaneously.

*The docking station needs to be purchased additionally.



Easy Maintenance



- Remote Upgradation Supportive, Users can quickly obtain software updates to instantly improve robots ' performance.
- Intelligent Fault Analysis and Trouble-shooting, Cloud Management and Maintenance , make us can quickly respond to customer problems and solve them, and provide after-sales service remotely

Reduce maintenance time, Improve efficiency, Reduce maintenance costs

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Customer Value

Pudu Robotics

Shenzhen-based and founded in 2016, Pudu Robotics is a world-leading tech-focused enterprise dedicated to the design, R&D, production and sales of commercial service robots on a mission to use robots to improve the efficiency of human production and living.

Since its inception, Pudu Robotics has heavily invested in R&D, obtained multiple awards such as Red Dot and applied hundreds of core patents to lead the development of the robotics category and provide high technology products that would appeal to targeted markets. Pudu Robotics has been rapidly growing in recent years to become a “leader” in the global markets with coverage of over 60 countries worldwide. The robots are widely applied in restaurants, hospitals, schools, office buildings, government halls, subway stations, waiting rooms, etc.

Global Sales Network

Sales Network

Pudu Robotics is exploring the global markets rapidly and currently with the coverage of over 60 countries and 600 cities worldwide. We are on the way to explore and deliver more to the future!



Media Coverage

Companies urged to test new business models

FORMAT also about 11 per cent of Singapore's gross domestic product and employ about 25 per cent of the country's workforce.

"Covid-19 has accelerated digital adoption for many of our F&B companies. No one could still yesterday think especially so for those in the Central Business District and tourism related areas, as well as catering companies, all of which are seeing lower recovery, he added.

Mr Chan noted that from January to October, the number of applications for the Productivity Incentive Grant (PIG) in the F&B sector of the same period last year.

He also notes that this time, more than 2,500 new applications for PIG solutions have been approved this year.

"Since Covid is an example of an F&B company that adapts quickly during the current breaker by going into food delivery to survive, it is a good model for other F&B businesses, and the industry.

These efforts increased to reduce food delivery significantly, from 10 per cent pre-Covid to 30 per cent during the circuit breaker, and he said.

With the increased revenue from food delivery sales, these chains have been able to overall revenue in pre-Covid levels despite seeing capacity restrictions, he added.

"The more they test, the more they will continue to support F&B players with various initiatives to help them adapt digital technologies.

For example, companies can get digital marketing support through the Enterprise Development Grant or apply for subsidised digital marketing courses.

Various initiatives under the SkillsFuture programme also help companies use digital technologies, such as the Digital SkillsFuture Bonus, where F&B firms can get 50 per cent of up to S\$5,000.

Mr Chan also encouraged companies to test new business models to capture growth opportunities, he noted how catering company Le



Minister for Trade and Industry Chan Chun Sing (left) has one-on-one with business leaders on how to survive the crisis. **Minister for Trade and Industry Chan Chun Sing** (left) has one-on-one with business leaders on how to survive the crisis.

NEWS

Home Coronavirus Video World Asia UK Business Tech Science Stories

Tech

CES 2020: Restaurant cat robot meows at dining customers

06 January 2020

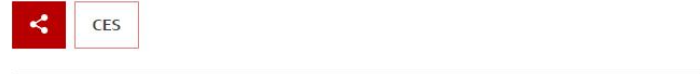
Robotics is partnering with the Food Innovation and Research Centre - a joint initiative between Singapore Polytechnic and Japan's private Singapore (JSC) - to develop a cat robot to help restaurants in Singapore during the circuit breaker by allowing food delivery services to continue the repair of food for all its business partners.

Companies can also take advantage of FoodInnovate, a multi-agency initiative led by EDC that helps support food companies to take their products to new markets, he said.

As companies adapt to make their processes, there are opportunities to redesign their make working in the sector more attractive to locals and reduce the risk of staff shortages.

At the end of the month, more than 1,000 workers have returned to F&B companies since walking away or are undergoing retraining through Workforce Singapore's programme.

Companies can also get support for salaries and absenteeism through the Singapore's Enhanced Training Support Package for the food services sector, he added.



Forbes Страницы: Бизнес

НОВОЕ МИЛЛИАРДЕРЫ РЕЙТИНГИ БИЗНЕС ФИНАНСЫ СВОЙ БИЗНЕС ТЕХНОЛОГИИ ВИДЕО ПОДКАСТЫ ИТОГИ ГОДА 2020

Life Wонгаз AGENDA ШКОЛА МИЛЛИАРДЕРА EDUCATION КЛУБ COUNCIL КОНФЕРЕНЦИИ ONTOLOGY

Робот за \$12 000: «Шоколадница» тестирует роботов-официантов

Татьяна Романова Forbes Staff

НОВОСТИ, КОТОРЫЕ УДАРЯТ ПО ВАШЕМУ КОШЕЛЬКУ

В НАШЕМ КАНАЛЕ

30 октября роботы-официанты работают в двух кофейных сети «Шоколадница». Пандемия добавляет популярности такому способу обслуживания.

Обслуживать гостей двух кофеен «Шоколадница» будут роботы-официанты.



Cooperation

Panasonic



MINOR
HOTELS



Pulmuone



DUNKIN'

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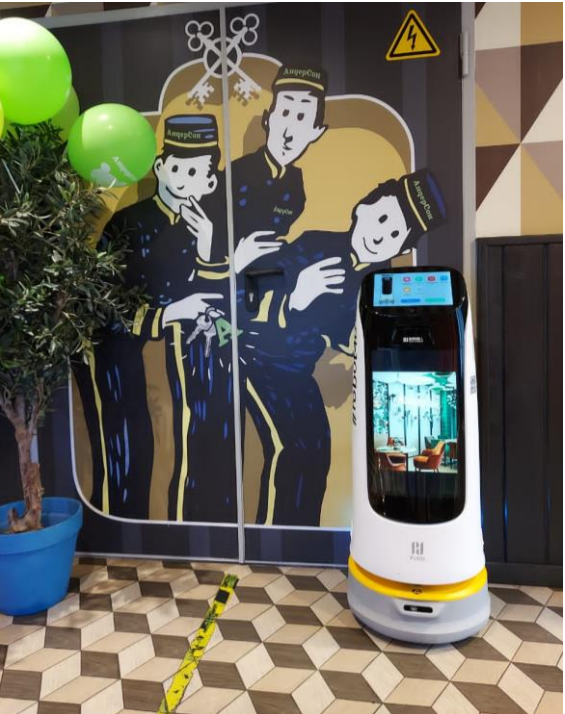
Case Study

Customer Value

Case Study



Case Study



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Customer Value



A differentiated experience to attract more customers

KettyBot redefines customer experience with an eye-catching way to attract customers and a smart, thoughtful way to serve them.

A novel approach for in-store marketing

KettyBot allows your marketing campaigns and special offers to reach more customers, delivering a higher conversion.



Customer Value



Robot-human collaboration to improve service and efficiency

Human workers collaborate with KettyBot in a way that they can both do what they are best at.

KettyBot is ready to assist and improve humankind working experience.

Manpower shortage is no longer a problem

Multiple delivery mode can well assist stores in completing tasks such as food delivery , and delivering snacks, which will free up human workers from dull and duplicate tasks.



Customer Value



One robot for multiple needs

As a multitasker ,KettyBot can perform several tasks --marketing, delivering, guiding at the same time, assisting from front-end to back-end, meeting the propaganda and delivery needs of restaurants, cafes, bars, barbecue shops, hotels, hospital etc.

Unified management & IoT platform

Users can manage different models of Pudu robots simultaneously and analyze the operation of the robots through Pudu management platform.





 Pudu Robotics

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