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Implementation of Artificial Intelligence in Motels

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ABSTRACT

The most essential requirement of everyone's lives is food. In this research paper I am writing about an idea of implementation of Artificial techniques in the motels by which food is served replacing the labor. Also, to reduce the wastage caused by the humans while preparing food in the hotels.

Keywords— *Artificial Intelligence, IT Hotels, Convolution Neural Network, pic2receipe*

1. INTRODUCTION

In recent days, due to the increase in the number of application techniques of Artificial Intelligence in all the fields, for instance, speech recognition, Image Processing, etc. There have been very few numbers of Technical expertise in the motels, but there are many hardware appliances provided for the improvement in the Hotel Industries. The main objective of this research paper is to share a few ideas which could be implemented in Hotels to make people self-service and become a chef at the same time using Artificial Intelligence techniques. This model should not be compared with the food delivery system, which will have completely different functionalities, but in this case, the method involves as mentioned below.

Traditional Hotel Service

1. Customers arriving at the hotel
2. Customers standing in a queue to order food in the cash counter

IT Hotel Service (which includes AI)

1. Customers arriving at the hotel
2. Customers Occupying each block of the cabin to order and get the food from the system on the basis of the menu present in the list.

But converting the above-given methodology in real-time involves critical Artificial Intelligence techniques. In this paperwork, I would like to share a few methods by which this can be achieved. The system which is required for this service is not just the computer code, it includes even the hardware for the preparation of the food.

Artificial Intelligence helps the machines to interpret human thoughts, so if anyone orders a rice bowl from the frontend of this system, it should provide the actual food we eat. This can be achieved by training the model using Artificial Intelligence.

2. LITERATURE REVIEW

Javier Mar, Aritro Biswas in [1] have proposed work on the image retrieval task, which can analyze the ingredients present in the image of food, even with the quantity

3. METHODOLOGY

Any model before it can be trained should be able to analyze the data and the datasets. For this to happen the model should be exposed to the huge database and check how it will interpret for each of the findings, In this IT Hotel model we have to intervene the list of food pictures in the database through an algorithm like pic2receipe, deep convolution neural networks initially to segregate the ingredients present in the food picture, later gathering the ingredients with a minimal quantity from the embedded system and the final product should be given through it. Tensorflow is a software used for implementing artificial intelligence applications.

4. CONCLUSION

In this paper, I present an idea of converting the image of food to ready and fresh food since we have a huge number of software and tools available out there, which can be made used to implement this model, by doing this the cost of labor can be cut short , and also the major issue nowadays is the environmental pollution due to over use of plastics and many such , these issues can be resolved by trying to implement these real time systems.

5. REFERENCES

[1] Marin, Javier Recipe1M+: A Dataset for Learning Cross-Modal Embeddings for Cooking Recipes and Food Images {IEEE} Trans. Pattern Anal. Mach. Intell20

