

TheBestConsultant

Shliakhau Yan

Supervisors: *Uladzimir Zhuk, Uladzislau Hadalau*
State Institution of Education "Secondary School №11 the town of Slutsk",
Minsk/Belarus, noname2012new@mail.ru

1 Current problem and introduction

Thanks to IT-technologies the service sector has reached a new level today. However, consultants are often unprofessional, and the expenses on them are thousands of dollars per year. However, what if you apply computer analysis of a person's face for psychological classification and improve it, and also you completely automate the process of service in shops, restaurants, hotels etc.

TheBestConsultant is a new look at the sphere of services. The main idea of the project is invention of a software-engineering system which can only indicated the way of communication and recommendations by the face of the client. I have already received offers for implementation and plan to provide the system to some restaurants and shops.

2 Realization

Psychologists.

In the beginning, I considered a lot of ways of service. The most popular of them was psychogeometry. This method was developed by the American doctor of psychological sciences Susan Dillinger in the 1980s of the last century. It turned out that only the person's face can indicate the way of communication with him. Because of the lack of a dataset of people's photos, I collected my own dataset, which was used for training a high-accuracy neuron network.

Realization

The high-accuracy deep neuron network algorithm is used to determine many client metrics (sex, age, psycho-geometric type, race and etc), because this method is advanced at the moment. To recognize regular customers is used the algorithm which I developed by myself. The main idea of it is to use passive training. This principle makes possible to recognize a changing of the customer's appearance, for example, an overgrown beard, put sunglasses or a hat. The algorithm for issuing scripts of communication bases on the principle of self-improvement. It means that the algorithm will correct

itself and will provide relevant characteristics for the place of the using of the system after a while. Based on these algorithms, an assistant with a voice communication function has already being developing. It will help a client to pick up a product or service.

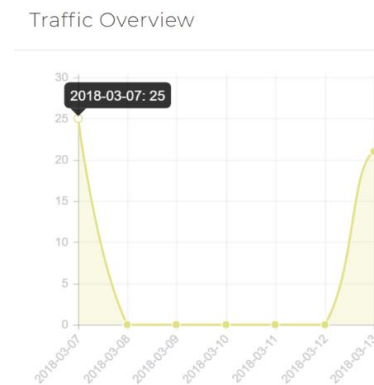


Figure 1 Visit schedule.

To become a user of TheBestConsultant, you need to transfer video streams to the system. Then, the system will determine the clients' metrics and will display the ways of communication and recommendations in the web application. This information can. Also, the collected statistics is available to the manager in the web-cabinet. This cabinet includes of information about users, current coupons and recommendations for users. Also, all information is encrypted by RSA algorithm, because the algorithm uses users' personal information.

3 Conclusion

At the moment, few people think about solving the service problem. But imagine. You can forget about queues and unqualified specialists. Advanced algorithms of machine training and modern methods of psychology can already become an integral part of the service sector and this is already here. TheBestConsultant solves service problems, and the most importantly it does accurately and quickly.