

SETINT AI ROBOTIC SYSTEMS

Our company mainly develops artificial intelligence solutions for the use in health sector. Our software solutions were designed as to be reachable 7/24 through tablets, smartphones or computers. The success of artificial intelligence in health sector was proved by tests and even by real trials. Problems such as (incorrect disease diagnoses , wrong treatment program, etc) are getting into the nurses' daily work program due to (tense work program, extra night shifts, lack of proper diagnoses). We are working on reducing these errors as much as possible along with helping the health institution staff members. To achieve that, three main projects are under development. They are as follows: (ChatBox Doctor , Robot Doctor and Robot Nurse).

Chatbox Doctor:

This application is open to visitors in our website online. The main idea is to diagnose your disease by using information related to you in the chat. This data is fed into the system as an input to relate it accordingly with the proper disease. Also, it will show the proper treatment program and guide you to the correct clinic.

As the ChatBox Doctor is equipped with artificial intelligence, it will show you the best diagnose results and guidance. We know that it's hard to reach instant medical guidance from doctors. That's why our application provides you the needed clinical information instantly online through your tablet, smartphone or computer. In future updates, the program can use the smartphones' embedded sensors to do more advance services such as asking for an ambulance in urgent situations, instant directives, and hospital appointment management.

List of diseases the Chatbox Doctor can answer as an output along with symptoms and tests:

- Pre-prandial /fasting blood glucose
- bad breath
- anaemia
- asthma
- Obesity / weight assessment
- over-sweating
- fever / high fever / fever assessment
- stomachache
- oedema / foot swelling
- weakness / exhaustion

- costiveness and its symptoms
- Cramp
- esophageal reflux
- cough

Robot Doctor:

This project's goal is to diagnose a disease by entering the patients' clinical information such as temperature, pulse, test results etc. The algorithm used in this application was approved by health institutions doctors committee. The integration of artificial intelligence in this application is under development. Once the development is over, users will be able to reach full information about various diseases and their treatment programs.

Robot Nurse:

In this project, a robot integrated with artificial intelligence is under development for the purpose of helping doctors/nurses in hospitals. This robot will be the first of its kind worldwide as it's going to work autonomously inside health facilities and hospitals. Its' tasks range from notifying nurses when needed, providing solutions to different patient problems to assisting nurses and being active with them. Our robot will diagnose various diseases through different ways and present them accordingly to doctors. As the feasibility work ends successfully in the hospital, technical equipment integration will be taken into consideration by our team in order to make the nurses' job easier and minimize errors from patients. Different sensors and transducers are embedded on the top of the robot making disease diagnoses a lot easier. Also, the robot will be a logistic solution for patients who need to leave their beds and go to check-up centre. The robots' long battery life will also be a crucial help for users' experience. The embedded screen on the robot will be helpful for notifying at different events and be used to input lots of tasks. Object avoidance will be introduced as a feature in full autonomous mode of the robot providing a safer mission. The robot along with its software algorithms are being fully developed by Turkish engineers. This robot will be able to diagnose different disease along with their treatment programs, share the hospital staff's work with doctors and comment on them and guide patients with the needed procedure during their treatment program.