Artificial intelligence powered Chatbot for the astronauts

Names and affiliations of the authors: Anitha S Pillai,
Hindustan Institute of Technology and Science, India

Designated speaker: Anitha S Pillai

A Chatbot also known as Conversational Agents is an Artificial intelligence (AI) powered software application that can be used to conduct an on-line chat conversation via text or speech. It gives the user a feeling as if he/she is interacting with a human being. Chatbots have various applications where it can provide answers/guidance to the users.
As astronauts move further into space there are chances that they may fall sick due to radiation, severe environmental changes, gravitational changes etc. In such situations the astronauts will find it difficult to come back to earth or consult doctors Online. Artificial intelligence driven Healthcare Chatbots developed taking the advantage of Natural Language processing with the support of healthcare professionals/ doctors provide a great relief in such situations. These Chatbots created with the expert advice of doctors can learn and evolve over a period of time. This could answer medical questions from a pre trained Database which can be updated periodically. Astronauts would be able to list down their symptoms and the Chatbots could give medical support by suggesting some medicines or other remedies which helps in diagnosis and treatment of simple medical conditions without much delay.