BYTE QUEST

Vasavi College of Engineering

Department of Computer Science and Engineering

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Contents:

Byte Quest is the article published by the CSE dept of Vasavi College of Engineering regarding the latest innovative Technologies and Software that have been emerged in the competitive world. The motto of this article is to update the people regarding the improvement in technology. The article is designed by the active participation of students under the guidance of faculty coordinators.

 Good, bad or indifferent if you are not investing in new technology, you are going to be left behind.

-Philip Green

 Once a new technology rolls over you, if you're not part of the steamroller, you're part of the road.

-Stewart Brand

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SEMANTIC WEB

Semantic web is a mesh of data that are associated in such a way that they can be accessed easily by computers instead of human operators. It is an extension World Wide Web(W3).

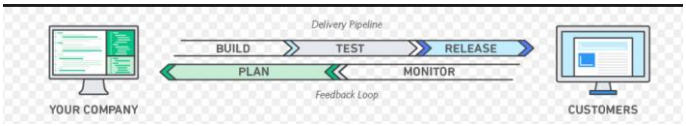
The key goal of the Semantic Web is to trigger the evolution of the existing Web to enable users to search, discover, share and join information with less effort.

The Semantic Web is a process that allows machines to quickly understand and react to complicated human requests subject to their meaning. This kind of understanding mandates that the appropriate information sources are semantically structured, which is a difficult task.

The Semantic web is capable of analyzing all the data on the web- the content, links and transactions between people and computers. It is yet to emerge and if its in full out to out use, the way W3 works changes. It ensures us better security and faster access.

VRINDA.K (CSE-B 2/4)

DEVOPS

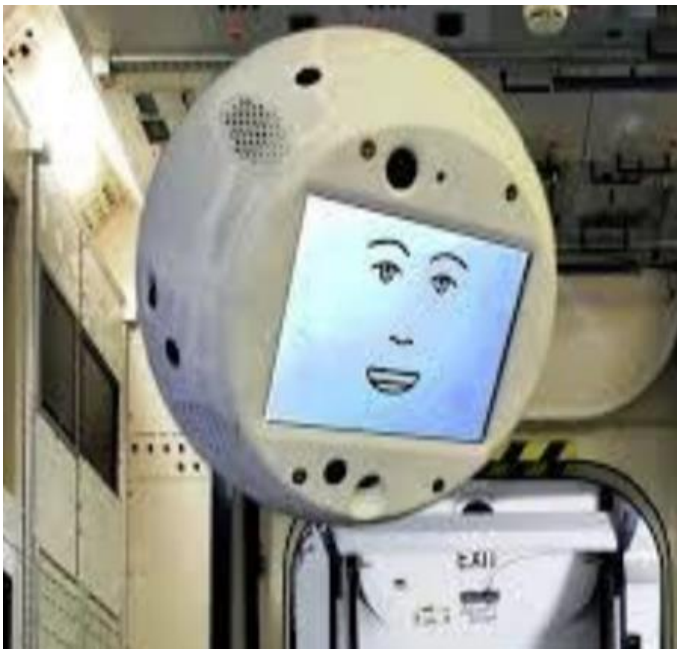


DevOps is the combination of cultural philosophies, practices, and tools that increases an organization's ability to deliver applications and services at high velocity: evolving and improving products at a faster pace than organizations using traditional software development and infrastructure management processes.

This speed enables organizations to better serve their customers and compete more effectively in the market.The benefits of DevOps are speed, rapid delivery, reliability, scale, improved collaboration and security. Why is DevOps being preferred by most of the tech giants? One reason is that they are able to release very frequent but small updates. These help the developers' team to identify bugs faster. This is similar to layering down a problem. Working on the top layer(the bug), eliminating it and then working on the next bug which is at the top layer. DevOps is preferred for its promising performance and will be one of its kind to work over a problem.

AYUSH NOEL (CSE-B 2/4)

CIMON



Cimon or officially CIMON (Crew Interactive Mobile companion) is a head-shaped AI robot used in the International Space Station.

The device is "an AI-based assistant for astronauts" developed by Airbus and IBM, with funding from the German Aerospace Centre. Cimon runs on Ubuntu.

CIMON is roughly spherical and weighs 11 lbs. (5 kilograms). The robot can converse with people, and it knows whom it's talking to thanks to facial-recognition software. (CIMON has a face of its own — a simple cartoon one.) The astronaut assistant is also mobile; once aboard the ISS, CIMON will be able to fly around, by sucking air in and expelling it through special tubes. No other AI-equipped machine has ever flown to space before, project team members said.

CIMON will be able to access lots of relevant information, including photos and videos, about the procedure in question. And the astronaut assistant is smart enough to deal with "questions beyond the procedure"

CIMON's mission is a technology demonstration designed to show researchers how humans and machines can interact and collaborate in the space environment. It'll be a while before intelligent robots are ready to do any really heavy lifting in the final frontier — say, helping astronauts repair damaged spacecraft systems or treating sick crewmembers. But that day is probably coming.

"If you go out to the moon or to Mars, you cannot take all mankind and engineers with you," Karrasch added. "So, the astronauts, they will be on their own. But with an artificial intelligence, you have instantly all the knowledge of mankind."

VAGDEVI PALADI (CSE-B 2/4)