



## BYTE QUEST

Vasavi College of Engineering

Department of Computer Science and Engineering

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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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## BABEL FISH EAR BUDS

In an increasingly global world, language is still a barrier to communication. Google Translate already has a conversation feature, and its iOS and Android apps let two users speak as it automatically figures out what languages they're using and then translates them. But background noise can make it hard for the app to understand what people are saying, and also to figure out when one person has stopped speaking and it's time to start translating.

One person wears the earbuds, while the other holds a phone. The earbud wearer speaks in his or her language— English is the default— and the app translates the talking and plays it aloud on the phone. The person holding the phone responds; this response is translated and played through the ear buds

. The name Babel fish was inspired from the fish which was a translator in the movie "Hitchhiker's Guide to the Galaxy"



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## TOUCH COMMERCE

Touch commerce is a trending technology these days. Being able to buy anything you want with the touch of a finger may have seemed like a fantasy a few years ago, but it's now a reality. Merging touchscreen technology with one-click shopping, touch commerce allows consumers to buy products easily from their phones.

After linking their payment information to a general account and enabling the feature, customers are able to buy everything from clothes to furniture with just a fingerprint.



According to Deloitte, this is one of the biggest things to hit commerce in recent years with purchases of this type expected to increase by 150 percent this year alone and retailers in almost every industry anticipating an increase in sales directly related to this new technology.

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# NEURAL NETWORKS

Artificial neural networks are computing systems, which are more like a framework for many different machine learning algorithms to work together rather than being an algorithm itself. They are vaguely inspired by the biological neural networks that constitute animal brains.

A neural network usually involves a large number of processors operating in parallel and arranged in tiers. The first tier receives the raw input information. Each successive tier receives the output from the tier preceding it, rather than from the raw input. The last tier produces the output of the system. Each processing node has its own small sphere of knowledge, including what

It has seen and any rules it was originally programmed with or developed for itself.

Undoubtedly, neural networks



are the next major advancement in the Computing Industry. Neural networks are typically used to derive meaning from complex and non-linear data, detect and extract patterns which cannot be noticed by human brain. The applications of the neural networks involve:

- Pattern/Image or object recognition.
- Signal processing.
- In self-driving cars to manage control.
- Anomaly detection.
- Time series forecasting/  
Classification.

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