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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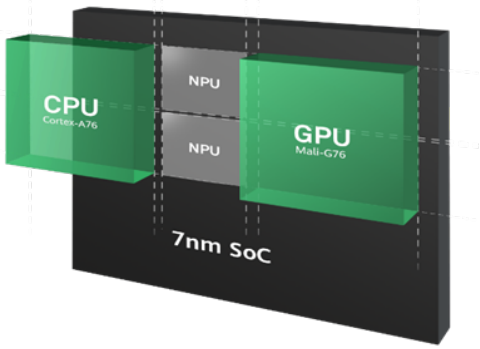
KIRIN 980 – WORLD'S 1st 7nm MOBILE AI CHIPSET

Huawei's Kirin 980 is the world's first 7nm process mobile phone SoC chipset, the world's first cortex-A76 architecture chipset, the world's first dual NPU design, and the world's first chipset to support LTE Cat.21. The Kirin 980 combines multiple technological innovations and leads the AI trend to provide users with impressive mobile performance and to create a more convenient and intelligent life.

The Kirin 980 integrates 6.9 billion transistors in an area of less than 1 square centimetre which is a 1.6x fold increase in density to empower better performance.The Kirin 980 also includes the world's first commercial use Mali-G76 GPU performance is improved by 46%.



Its LPDDR4X memory operates at speeds up to 2133 MHz The fourth -generation ISP utilises a multi-pass noise reduction to capture quality images and preserve important details. This ISP also has a dedicated video pipeline to effectively improve video clarity and reduce shooting delays by 33%.

JAYADEV(CSE-B 3/4)

No more specific commands: growing of NLP

The usage of chatbots in customer service became one of the leading trends of the outgoing year. In 2018 applications will need the ability to recognize the little nuances of our speech. The users want to get a response from their software by asking questions and giving commands in natural language, and not thinking about the "right" way to ask.

The development of NLP and its integration into computer programs will be one of the most exciting challenges of the 2018 year,

What is a simple task for a human to understand the tone of speech, it's emotional coloring, and double meaning—is also a difficult task for a computer that is accustomed to understanding the language of specific commands. With the help of NLP, people will be able to ask more shaded questions and receive appropriate answers .

SPANDANA(CSE-B 3/4)

BLUE EYES TECHNOLOGY

Blue eyes technology makes a computer to understand and sense human feelings and behavior and also enables the computer to react according to the sensed emotional levels. The aim of the blueeyes technology is to give human power or abilities to a computer, so that the machine can naturally interact with human beings as we interact with each other. All human beings have some perceptual capabilities, the ability to understand each other's emotional level or feelings from their facial expressions. Blue eyes technology aims at creating a computer that have the abilities to understand the perceptual powers of human being by recognizing their facial expressions and react accordingly to them.

The Blue Eyes Technology and Its Basic Structure:

The objective of Blue Eyes technology is to design a computational machine having sensory and perceptual abilities like human beings.

Blue Eyes technology uses most modern cameras, microphones and advanced non-obtrusive sensing techniques to interact with humans and understand the emotions of human beings. The machine has the ability to grasp the eye movement of the user, the needs of the user and also can understand the emotional and physical states of a user in front of the machine. The process of making a computer having sensing and emotional capabilities is known as "Affective Computing".

Blue Eyes utilizes many sensor mechanisms, which is equivalent for the ears, eyes and other sensory organs. Blue Eyes uses voice recognition software, cameras and biometric sensors to understand and respond to the emotional levels of humans. The voice recognition software can perceive not only what is being spoken but also the tone how it is said. High resolution cameras are used for tracking the minute facial expressions, hand gestures and eye movements. Biometric sensors are used for measuring and analysing the muscle tension, temperature

PRIYANKA(CSE-B 2/4)