

Topic _____

Date _____

Android Pie

Android "Pie" (codenamed "P") is the ninth major update and the 10th version of the Android operating system.

History:

It was first announced by Google on March 7, 2018 and first developer preview was released on the same day. Concurrent updates were released on May 8, 2018, June 6, 2018, July 2, 2018 and July 25, 2018. It was officially released on August 6, 2018. It was made available for Google Pixel devices and the Essential Phone.

Features:

It embedded new image & video encoder and decoders, AptX adaptive compression algorithm for better latency and better quality sound via Bluetooth. A new "Lockdown" mode which disables biometric authentication once activated, which will be disabled once the user used their password to login. There are some new UI features added like a new gesture based interface, A "Digital Wellbeing" feature which discourages excessive usage of phone to name a few.

- Siddhant Jain
IT-3rd

CRYPTOCURRENCY

It is a digital currency or virtual currency used on the Internet only. We can buy it with real cash or sell it for real cash.

"Crypto" means the use of standard encryption technology and is related to the cryptography section of the computer field. What is basically means is "It helps prevent forgery and stealing." The main feature of cryptocurrency is 'independence'. This currency does not belong to a government, nor does it belong to a financial organization.

BITCOIN -

- First, bitcoin is a cryptocurrency.
- It is said that "Satoshi Nakamoto" is the creator of bitcoin. However, no one knows whether Nakamoto is a person or a group of expert programmers.
- Nakamoto was actively involved from late 2007 to late 2009 to develop bitcoin but then disappeared.
- Right now, the most popular cryptocurrencies are bitcoin, Ripple, Ethereum, Litecoin, etc.
- Right now, there are more than 1,000 cryptocurrencies around the world, and the number is increasing.

There is separate complex way of gaining it, i.e. mining. But mining requires more processing power, electrical energy, and complex hardware devices.

Vidisha Dahiya
IT - 3rd year.

Holograms : dial to change the future..

Everybody is running after cryptography, block-chains and AR using on headsets and phones but people forgot the advancing features of holograms which might be the dial to change the future.

Maybe the smartphones using AR will be the root to acquire the holograms into the world; 3D Holograms.. Basically a hologram refers to the 3D virtual object that isn't actually 'there' but it looks as if it is there.

Right now, there are two techs in market: HoloLens of Apple's ARKit or Google's ARCore, Lightware from Magic Leap another upcoming tech would be introduced for Novels and its accelerating speculation comparatively better.

Anyone most likely to be concerned over 'Holo's' because, it is going to take over screens and stuff to carry, would increase the interaction of human with the small chip that might open up a big projecting 3D hologram or might be advanced; would accompany more virtual moving live arena of on-going life that will take over every phone, tablets, PCs that we actually have to keep it with us for work and stuff but takes hell lot of space & charging and various problems. Even we look out in our surrounding people do are acquiring knowledge & developing gadgets like Navion by WayRay (Navigating Hologram), Looking Glass factory (an awesome-live based tool), etc..

"Y not we try to learn more about it?!!"

— SHIVANI GAUTAM
(B.Tech (IT) 4th yr.) :)

INFORMATION TECHNOLOGY

- Need of the hour

Information Technology is today becoming as important as 'Roti, Kapra aur Makan'. In 40's, people used to believe in secrecy of information but in this millenium, the concept is totally reversed. Information is emerging as a powerful tool.

There are various technologies which are trending in corporate as their need to deal with huge Data.

BIG DATA is associated with data management. The data analytics sector will help businesses to analyze data and engage more customers.

CLOUD Computing Business organization stores terabytes of data everyday, which must be arranged, sorted and restored. The cloud will increase the productivity of organization by saving time and money. It is cheap, reliable for secure backup and eases resource management.

CYBER SECURITY

The demand for cyber security has increased because of online scams and frauds, consequences have brought attention to the importance of secure network, privacy and security which can be provided by cyber security experts.

- ANUBHA JAIN
IT - 4th year.

WHY DO WE DESPERATELY NEED
TOPIC..... DATE.....

CYBER SECURITY

The Internet of Things is an idea of potentially unending consequences and infinite possibilities.

Everything from your car & refrigerator has the potential to communicate over the internet.

New Problems are presented by the IoT

To create a world above the physical, to make internet without borders. It is a dream & fascination of many tech enthusiasts, as we see the day of complete internet coverage draw near.

This is a truly ailing problem as hacking becomes much greater given the sheer number of access points that are being created in pursuit of IoT.

So we need to consider every eventuality & potentiality if such actualisation were to occur.

security & safety is in EVERYONE'S HAND

Anything at all would be better than leaving everyone to set up their own device security. Because unless told people generally do not create strong passwords or use VPNs.

IoT is an idea worth getting excited about, but RISKS ARE NOT TO BE IGNORED.

- Priyanshu Mehta
IT-3rd Yr

Quantum Computers

Normal computers are binary. But quantum computers are unique as they take advantage of superposition.

Quantum computers use qubits, meaning each unit represents both 0 & 1 simultaneously, allowing for more computing power performed much more quickly, while using a lot less energy.

The basic principle behind quantum computation is that quantum properties can be used to represent data & perform operations on it.

Today's computers, called "classical" computers, store information in binary; each bit is either on or off. Quantum computation use qubits which can be on or off, or both on & off, which is a way of describing superposition. The state of a piece of data on a normal computer is known with certainty, but computation uses probabilities.

If large scale quantum computers can be built, they will be able to solve some problems much more quickly than any computer that exists today. They would, however, be able to do many things much more quickly & efficiently.

INTERNET OF THINGS

The "Internet of things" (IOT) is becoming an increasingly growing topic of conversation both in the workplace and outside of it. It's a concept that not only has the potential to impact how we live but also how we work. But what exactly is the "Internet of things" and what impact is it going to have on you, if any? There are a lot of complexities around the ~~"Internet of things"~~ but I want to stick to basics. Lots of technical and policy-related conversations are being had but many people are still just trying to grasp the foundation of what the heck these conversations are about.

Simply put, this is the concept of basically connecting any device with an on/off switch to the Internet (and/or each other). This includes everything from cellphones, coffee makers, washing machines, headphones, lamps, wearable devices and almost anything else you can think of. This also applies to components of machines, for example a jet engine of an airplane or the drill of an oil rig. As I mentioned, if it has an on and off switch then chances are it can be a part of the IOT.

The new rule for the future is going to be, "Anything that can be connected, will be connected." But why on earth would you want so many connected devices talking to each other? There are many examples for what this might look like or what the potential value might be. Say for example you are on your way to a meeting; your car could have access to your calendar and already know the best route to take.

SHIVAM MANI TRIPATHI
I.T 2nd YEAR