

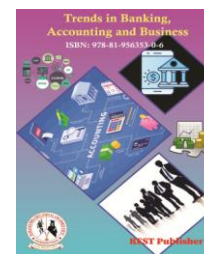


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Web 3.0-A Deep Dive into the Next Generation Internet

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Abstract. This is all about the revolution happening in the fintech sector also called new age innovation or web 3.0 which bringing the greater change to the economy in the form of blockchain technology, metaverse, NFTS, decentralized finance which has made the life of the people much easier when it comes to gaming, arts, payment systems which have the capacity of replacing the banking system as it increases the transaction speed, reduces the cost, increases the transaction per block this also lead to the fear of banking sectors as they may get demolished if people start to believe in this and it works out.

Keywords: Bitcoin, Cryptocurrency, Metaverse, Blockchain, Web3.0, Internet, NFTs

1. INTRODUCTION

Before it was told that US dollar was backed by the gold standards, silver, bonds and various other instruments until 1971 but after that president Richard Nixon has removed the gold standards and it was not backed by anything later on US started printing more and more paper currency which led to the high Inflation of around 9.1% which is proving in the present decade that paper cash is just a thrash. In 2008 after the dot com crash and financial system fall one of the Japanese named Satoshi Nakamoto founded a currency named Bitcoin through which it has been made possible to transfer money from one part of the world to other part in a minute. Bitcoin works on the basis of proof of work consensus mechanism which is possible to be made stored in cold as well as hot storage.

2. COLD VS HOT STORAGE

Cold storage is nothing but storing wallet through which cryptos are stored in a place which is nowhere connected to the internet and its sub includes paperwork and hardware. Hot storage is wallet which is connected to the internet and which also become targetable to the hackers in the case weaker protection with passwords.

Mount Gox Biggest Exchange Hack : Mount. Gox was one of the biggest exchanges which started as gaming card exchange founded by Mark Karpelese which slowly turned towards bitcoin trading exchange after the people started putting money into it in large amount which made it to grow faster. It started in 2010 but got hacked by anonymous hacker which led to loss of for about 850000 bitcoins worth 450million dollars. It has been also said that this exchange also had a link with one of hidden black-market network named Silk Road which involved dealing in drugs as well child pornography founded by ross Ulbricht which stayed from 2011 to 2013 later who was being arrested by USA agency.

3. PROOF OF STAKE VS PROOF OF WORK

Pow is a crypto consensus mechanism with the help of which transactions are recorded in the blockchain, there is a chance that fake transactions being created for example A have to send some amount of coins to B but there is a possibility that A may create a fake transactions or even though he have 5 BTC he may only send 4 BTC so that for verifying these transactions the people in POW is called as miners who will be getting rewards on converting these transactions into blocks and putting into blockchain which is a open source public ledger and anyone can freely download it from the internet. But only miner who validates the transactions are going to get the rewards where the energy of rest of the miners gets wasted as POW requires lot of energy consumption as it includes computational works and graphic cards and miner is also required to crack complex mathematical puzzles to create a block. POS is also a consensus mechanism, here the people who verify the transactions are called as validators who verify only a single transactions and the chances of reward are high in POS . For example ETHERUM is working on converting from POW to POS so that to become validator one need to stake a minimum amount of BTC . Here in case of ETHERUM it is like people to stake of minimum of 32 BTC to become a validator , more the stake chances of becoming validator increases which is to be picked on the basis of algorithm functions. BTC turns to be concern for the economy as it consumes for 121 terawatt of electricity a year which is more than Argentina's yearly power consumption. Cardano (ADA) a POS

based project which is also called as green coin consumes less than 6 gigawatt which is almost 99 percent less than bitcoin.

4. BITCOIN VS GOLD DEBATE

Gold has around 3000 years of legacy but still if you look at the post world war 2 gold has given negative returns of 15 percent considering the inflation whereas bitcoin has given more than 7000000 percentage of returns in just 10 years which is huge where the price rise happens mainly due to confidence of people. Even though some opposing investors say bitcoin is not backed by anything but the crypto fans say that its backed by technology, cryptographic security, speed transactions, interoperability, scalability . One scary thing about bitcoin is that almost 90 percent of supply i.e, 21 million where 18 million is in circulation currently and the price halving happens for every 4 years and the mining of total supply is going to happen by the end of 2140. A person can use bitcoin to buy a coffee which is not possible in case of gold or other precious metals as its not portable as you cannot carry from place to place . One better thing about gold is that its use cases mainly and it won't decay over years in consumer electronics namely cell phones or else in jewelry which makes it more important . But still the most of people believe that bitcoin is the new gold. One critic point about bitcoin which is given by peter Schiff founder of ocean pacific capital is that you cannot say the first invention is always the best invention as the telephone invented first by Alexander Graham Bell was not the best in the same way why any other coin can't replace bitcoin.

5. METAVVERSE

Metaverse is a digital world where you can virtually meet the people from different place in virtual world. You would have also recently observed Facebook also entering the world of metaverse as they have also changed the name into meta. The special features being recently added in metaverse mainly include digital real estates and house property where you can buy virtual land and also lease it for rent and also can have your own house and sell it in the future as the demand is expected to rise in the future for this craze of metaverse as it is the biggest revolution happening in the internet. Some of the popular crypto currency coins behind the developing of metaverse includes coins like Decentraland, Sandbox, Axie infinity, Theta, Enjin which is expected to boom in the coming days.

Advantages: People sometimes feels insecure in real world while speaking to some of the people due to their behaviour this metaverse world help the people to interact in digital world without any fear, Helpful in meeting friends and can go to the parties with their friends in virtual mode where it gives the feeling that peoples are really sitting in front of them, Digital lands and house property you can buy and give it for rent and earn money on it

Non fungible token: A non-fungible token is a record on blockchain which is associated with a particular digital or physical or digital asset. It's an art mainly which has been sold in market place like for example rarity. The most expensive NFTS sold is from Merge by an artist named Pak with a value of around 91.8million dollar followed by Beeple5000 days was being bought by one of the Indo- Singapore based guy named Vignesh Sundaresan also called by name Meta Covan where he paid around 69.3 million dollar in value. In common term NFTS are like arts or asset which is unique and only one original copy is available which really creates some value for it. Foreexample, art created by Leonardo Da Vinci has value because it's the original one if take a copy of it and sell in the market it won't be having any value.

8. CONCLUSION

India still has some issues with regarding to taking decision on adopting of crypto technologies as they are worried of lots of fraud happening in that area which may also disrupt the economic and financial system of a country, on the other hand if country bans crypto then it leads to opening of decentralized thing where govt is almost unable to track what is happening in the dark net.

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