GEETHANJALI
INSTITUTE OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

TECHIES CHRONICLE
-Driven to Discover

BLOCKCHAIN TECHNOLOGY

Blockchain, sometimes referred to as Distributed Ledger Technology (DLT), makes the history of any digital asset unalterable and transparent through the use of decentralization and cryptographic hashing.

A simple analogy for understanding blockchain technology is a Google Doc. When we create a document and share it with a group of people, the document is distributed instead of copied or transferred. This creates a decentralized distribution chain that gives everyone access to the document at the same time. No one is locked out awaiting changes from another party, while all modifications to the doc are being recorded in real-time, making changes completely transparent.

History of Block Chain

Although blockchain is a new technology, it already boasts a rich and interesting history. The following is a brief timeline of some of the most important and notable events in the development of blockchain.

2008: Satoshi Nakamoto, a pseudonym for a person or group, publishes "Bitcoin: A Peer to Peer Electronic Cash System."

2009: The first successful Bitcoin (BTC) transaction occurs between computer scientist Hal Finney and the mysterious Satoshi Nakamoto.

2010: Florida-based programmer Laszlo Hanycez completes the first ever purchase using Bitcoin — two Papa John's pizzas. Hanycez transferred 10,000 BTC's, worth about $60 at the time. Today it's worth $80 million.
The market cap of Bitcoin officially exceeds $1 million.

2011: 1 BTC = $1USD, giving the cryptocurrency parity with the US dollar.
Electronic Frontier Foundation, Wikileaks and other organizations start accepting Bitcoin as donations.

2012: Blockchain and cryptocurrency are mentioned in popular television shows like The Good Wife, injecting blockchain into pop culture.
Bitcoin Magazine launched by early Bitcoin developer Vitalik Buterin.

2013: BTC market cap surpassed $1 billion. Bitcoin reached $100/BTC for first time.
Buterin publishes "Ethereum Project" paper suggesting that blockchain has other possibilities besides Bitcoin (e.g., smart contracts).

2014: Gaming company Zynga, The D Las Vegas Hotel and Overstock.com all start accepting Bitcoin as payment.
Buterin's Ethereum Project is crowdfunded via an Initial Coin Offering (ICO) raising over $18 million in BTC and opening up new avenues for blockchain. R3, a group of over 200 blockchain firms, is formed to discover new ways blockchain can be implemented in technology.
PayPal announces Bitcoin integration.

2015: Number of merchants accepting BTC exceeds 100,000. NASDAQ and San-Francisco blockchain company Chain team up to test the technology for trading shares in private companies.

2016: Tech giant IBM announces a blockchain strategy for cloud-based business solutions.
Government of Japan recognizes the legitimacy of blockchain and cryptocurrencies.

2017: Bitcoin reaches $1,000/BTC for first time. Cryptocurrency market cap reaches $150 billion.
JP Morgan CEO Jamie Dimon says he believes in blockchain as a future technology, giving the ledger system a vote-of-confidence from Wall Street.
Bitcoin reaches its all-time high at $19,783.21/BTC.
Dubai announces its government will be blockchain-powered by 2020.

2018: Facebook commits to starting a blockchain group and also hints at the possibility of creating its own cryptocurrency.
IBM develops a blockchain-based banking platform with large banks like Citi and Barclays signing on.

"TECHIES CHRONICLE"

Faculty Contributions/ Achievements

- Dr. Y. Jahnavi published a paper in International Journal of Intelligent Systems Technologies and Applications on "Statistical data mining technique for sailent feature extraction" ISBN-ISSN number:1740-8865.

- Mr. K. Venkata Nagendra published a paper in the International Journal of Research on "Spam Reviews Detection in Online Social Media Networks "on November 2018.ISBN/ISSN number:2236-6124.

- Mr. K Venkata Nagendra published a paper in the International Journal of Scientific Research and Review on "Implementing Aadhar Voting System in Election using RASPBERRY PI "on October 2018.ISBN/ISSN number:2279-543X.

- Mrs. P Chandrakala published a paper in the International Journal of Scientific Research and Review on "Implementing Aadhar Voting System in Election using RASPBERRY PI " on October 2018.ISBN/ISSN number:2279-543X.

- Mrs. P Anusha published a paper in the International Journal of Scientific Research and Review on "Implementing Aadhar Voting System in Election using RASPBERRY PI " on October 2018.ISBN/ISSN number:2279-543X.

- Mr. K Venkata Nagendra published a paper in the Journal of Emerging Technologies and Innovative Research (JETIR) on "The Role of Big Data in Mechanical Engineering Design " onAugust 2018.ISBN/ISSN number:2349-5162.

- Mr. K Venkata Nagendra published a paper in the International Journal of Scientific Research and Reviews on "The benefits of Cloud Computing over Traditional Servers-A General Review "on July 2018.ISBN/ISSN number:2279-543X.

- Mr. K Venkata Nagendra published a paper in the International Journal of Computational Engineering Research (IJCER) on "Classification Algorithm Accuracy Analysis on Heart Diseases Data Using Association Rule Mining "on June 2018.ISBN/ISSN number:2250-3005.

- Dr. M. Mathan Kumar published a paper in the International Journal of Pure and Applied Mathematics(IJPAM) on "A Survey On The Security Features Of Wireless Ad-Hoc Networks" on June 2018.ISBN/ISSN number:1314-3395.

- Ms. P. Radhika published paper in International Journal on Engineering and Technology (IJET) on "An efficient Scheme for Big Data Privacy Preserving policy in cloud.

"DRIVEN TO DISCOVER"

- Ms. V. Gayatri has certified NPTEL online certification on "Programming Data structures and algorithms using python" , conducted by IIT Madras ,August-October,2018.

- Ms. V. Gayatri has certified NPTEL online certification on "Introduction to Machine Learning" conducted by IIT Madras,August-October,2018.

- Ms. V. Bharathi has certified NPTEL online certification on "Discrete Mathematics" , conducted by IIT Kharagpur , July-October,2018.

- Ms.P.Chandrakala   has certified NPTEL online certification on "Introduction to Internet of Things" , conducted by IIT Kharagpur , July-October,2018.

- Ms .P. Anusha has certified NPTEL online certification on "Discrete Mathematics", conducted by IIT Kharagpur , July-October,2018.

Events Organized

- A One day Seminar on "Cyber Security in Everyday Life" was organized under joint auspices of Department of Computer Science and Engineering & **NATIONAL CYBER DEFENCE RESEARCH CENTRE in** association with CSI at the Digi Hall on 3rd November 2018. The resource person is T.T. Harish, honorary chair member of NCDRC. The Seminar mainly focused on Cyber Security in Everyday Life. The resource person told the students about the different modes of cybercrimes, virus attacks, social networking security, password protection, financial frauds and its legal scenario with relevant case laws.

- A three day workshop was organized by Department of Computer Science and Engineering on 'INTRODUCTION TO GAME DEVELOPMENT'' on 25, 26, 27 October 2018 for III B. Tech students in association with APSSDC(Andhra Pradesh State Skill Development Corporation).

- An Industrial visit to Consensus Technologies Pvt. Ltd was organized by Department   of Computer Science & Engineering on 3rd of October 2018. About 28 students, along with faculty members Mr. K. Venkata Nagendra and Ms. P. Radhika from Departments of Computer Science & Engineering. At Consensus, resource person Mr. Venkat on the topic of "Software and Automation Testing" took a session. Mr.Nijesh talked about various testing principles and methodologies, which are being applied at Consensus nowadays.

Student Achievements

- ✓ **Paper publications**
  - ➢ S.Chandini has presented a paper on " Internet of Things" @ TECHNOQUEST-2K18,N.B.K.R. Engineering College(Autonomous), Nellore, 13-10-2018 and got 3rd prize
  - ➢ P.Jahnavi has presented a paper on " Internet of Things" @ TECHNOQUEST-2K18,N.B.K.R. Engineering College(Autonomous), Nellore, 13-10-2018, and got 3rd prize.

- ✓ **Workshops**
  - ➢ I.SivaSailaja has participated in "IoT: A hands-on tutorial" workshop @ IIIT SriCity, project Expo, 06-10-2018
  - ➢ I.SivaSailajahas participated in "Design of passive components for wireless applications" workshop @ IIIT SriCity, project Expo, 06-10-2018.
  - ➢ P. RamyaSree has participated in "IoT: A hands-on tutorial" workshop @ IIIT SriCity, project Expo, 06-10-2018.
  - ➢ P. RamyaSree has participated in "Design of passive components for wireless applications" workshop @ IIIT SriCity, project Expo, 06-10-2018.
  - ➢ P.Yamini has participated in " Machine learning: A hands –on tutorial using python & smart transportation "workshop @ IIIT SriCity, project Expo , 06-10-2018
  - ➢ P.Yamini has participated in "Smart transportation "workshop @ IIIT SriCity, project Expo , 06-10-2018
  - ➢ S.V.Rupa Rani has participated in "Machine learning: A hands –on tutorial using python"smart transportation" workshop @ IIIT SriCity, project Expo , 06-10-2018
  - ➢ S.V.Rupa Rani has participated in "Smart Transportation"workshop @ IIIT SriCity, project Expo , 06-10-2018
  - ➢ K.SaiPriya has participated in " IoTs: A hands-on tutorial" workshop@ IIIT SriCity, project Expo , 06-10-2018
  - ➢ K.SaiPriya has participated in "computer vision :Applications of deep learning" workshop@ IIIT SriCity, project Expo , 06-10-2018.