

Volume 7

26th January, 2020

Blockchain -Mr. Kedar Pujari (SY-IF)

Blockchain is literally just a chain of blocks, but not in the traditional sense of those words. When we say the words "block" and "chain" in this context, we are actually talking about digital information stored in a public database .Blockchain technology is associated with crypto currencies like bitcoin and others. Have you ever imagined a world where there is not necessary to validate any sale or purchase with no receipts, no bank documents and no need of registering or disposal of property with the concerned government department? When that new block is added to the blockchain, it becomes publicly available for anyone to view, even you. If you take a look at Bitcoin's blockchain, you will see that you have access to transaction data, along with information about when ,where, and by who the block was added to the blockchain.



in's ledger was the first blockchain, but the technology has begun to spread acro

Quarterly News Bulletin

Cloud Computing _Mr. Harsh Wangikar (SY-IF)

Cloud computing is the ly close, it may be desig- on sharing of resources to on-demand availability nated an edge serv- achieve coherence of computer system re- er.Clouds may be limited and economies sources, especially data to a single organization scale. Advocates of public storage and computing (enterprise cloud), or be and hybrid clouds note

Sveri's College of Engineering (Polytechnic), Pandharpur

Department of Information Technology

power, without direct active management by the user. The term is generally used to describe data centers available to many users over the Internet. Large clouds, predominant today, often have functions distributed over multi-

utomatic System On-Demand Economical Self-Service Features of Security Easy Maintenance Cloud Computing Large Network Access Pay As You Go Availability Aeasured service

-Mr. Makarand Khiste (SY-IF)

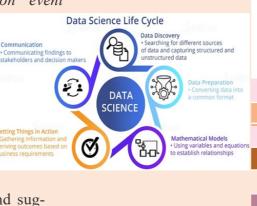
ple locations from cen- available to many organi- it enables IT. tral servers. If the connec- zations (public cloud). tion to the user is relative- Cloud computing relies

Digital Forensics

Data science is a life abundantly available data gest improvements. In ogy means that the data es on the analysis of be- ence discipline. science is present since havior based on event data. Process 1940's-1950.

In recent years, data minscience emerged as a new ing techniques and important discipline. use event data It can be viewed as an to discover amalgamation of classical processes, disciplines like statistics, check complidata mining, databases, ance, analyze and distributed systems. bottlenecks, Existing approaches need compare proto be combined to turn cess variants, and sug-

line of any data storage into value for individuals, later chapters, we will technique in which the organizations, and socie- show that process mining data is stored in well for- ty. Moreover, new chal- provides powerful tools mat so we can access this lenges have emerged, not for today's data scientist. data very easily. And also just in terms of size ("Big However, before introthe system enables us to store heavy data in effi-cient order. The data science is not a new technol- swered. This book focus- overview of the data sci-







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World of Sensors

ule, machine, or subsystem tional fields of tempera- medicine, robotics and whose purpose is to detect ture, pressure or flow many other aspects of our events or changes in day-to-day life. its environment and 0 send the information range of other sen-Color Senso Ultrasonic Sensor to other electronics, sors, measuring frequently a computer chemical & physiprocessor. A sensor is always used with oth-PIR Sensor Accelerometer materials. A few **IR Sensor** meter er electronics. Sensors are used in everyday LDR objects such as touch-Refractive index Rain Sensor Thermistor sensitive elevator butmeasurement, vitons (tactile sensor) brational sensors IR Photodiode LM35 Microand lamps which dim Transmitter (IR Receiver) (Temperature Sensor for fluid viscosity or brighten by touching the measurement, for example measurement and electrobase, besides innumerable into MARG sensors. chemical sensor for moniapplications of which most Moreover, analog sensors toring pH of fluids. A senpeople are never aware. such as potentiometers and sor's sensitivity indicates With advances in micro force-sensing resistors are how much the sensor's outmachinery and easy-to-use still widely used. Applica- put changes when the input microcontroller platforms, tions include manufactur- quantity being measured the uses of sensors have ing and machinery, air- changes.

Modern Education Using Augmented Reality Mr.Ajinkya Bahirat (TY-IF)

person's perception of the ing. Presently coming to-

that cloud computing allows companies to avoid or minimize up -front IT infrastructure costs. . Proponents also claim that cloud computing allows enterprises to get their applications up and running faster. with improved manageability and less maintenance, and that

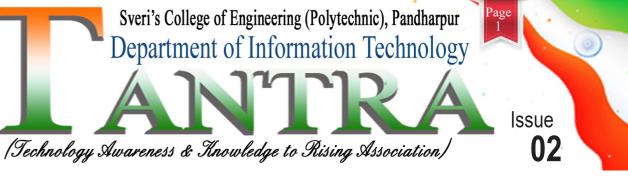
of

Big Data Page 3.3: Machine Learning Page 4.1: Blockchain Page 4.2: Digital Forensics Message From HOD

It is our pleasure to present second issue of news letter "TANTRA" of our department to all student's. This news letter is one of the ways in which we can disseminate the information about department. It covers various technological articles, departmental activities, achievements of students and staff members.

> I wish you all Happy *Republic* Day..!

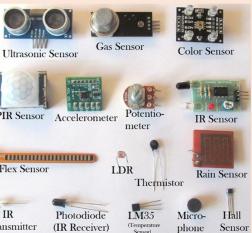




Quarterly News Bulletin

-Ms. Disha Bhattad (SY-IF)

A sensor is a device, mod- expanded beyond the tradi- planes and aerospace, cars,



There are a wide cal properties of examples include optical sensors for

Augmented reality (AR) is display of data, but off the bat we learned an interactive experience through the integration of about the current frameof a real-world environ- immersive sensations, work, there are numerous ment where the objects which are perceived as ways we can utilize Augthat reside in the real- natural parts of an envi- mented Reality in educa-

world are enhanced by ronment. Augmented Re- tion however we are going computer-generated per- ality in education however for the change of 2D picceptual information. The we are going for the tures into 3D for better primary value of augment- change of 2D pictures into comprehension of undered reality is the manner in 3D for better comprehen- studies with the help of which components of the sion of understudies with virtual teaching. digital world blend into a the help of virtual teachreal world, not as a simple ward our exploration, right









Recent Trends In IT

EDITORIAL

It gives us great pleasure to present the second issue of our Departmental news-"TANTRA"2020, letter which gives us the opportunity to focus the achievements in our department and new trends in Computer Engineering field.

We are thankful to all the students and faculties who have contributed during the preparation of this newsletter. We have tried our best and given positive efforts, expecting creative responses from everyone to continue the flow of knowledge through this quarterly newsletter.

Editors –

Mr. S. A. Zambare (Faculty) Mr. A. A. Bahirat (Student)

Papers Presented

Ajikya Bahirat, Amardip Pawar (Modern Education using Augmented Reality) Presented Paper AT GP organized Karad by MSBTE, mumbai



71st Republic day

Our Vision To Provide diploma education strengthened with basic knowledge and skills along with professional ethics enabling students to reach higher goals in the field of Information Technology

2. To support the students for technical knowledge in the field of Information Technology 3. To make students efficient in various skill sets in Information Technology

Information Technology

Our Mission

1. To impart value based technical education in

4. To encourage students for lifelong learning

Edge Computing -Mr. Bhuvnesh Giram (SY-IF)

Edge computing can be that features decentralized ducing a massive amount of traced back to the 1990s, processing power, enabling data to be computed limit.

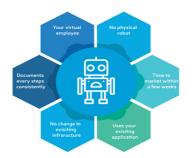
when Akamai launched its mobile computing and Intercontent delivery network net of Things (IOT) technol-(CDN), which introduced ogies. In edge computing, nodes at locations geograph- data is processed by the deically closer to the end us-vice itself or by a loer Edge computing takes cal computer or server, rathis concept further by al- ther than being transmitted lowing nodes to perform to a data Centre. The inbasic computational tasks. crease of IoT devices at the Edge computing is a distrib- edge of the network is prouted, open IT architecture



Robotic Process Automation (RPA) -Mr. Amardip Pawar(TY-IF)

which are labor.

Intensive tion, website, user portal, set of business rules.



RPA can be used to auto- etc. The RPA is a software does it require direct acmate workflow, infrastruc- program which runs on an cess to the code or datature back office process end user's pc, laptop or base of the applications.

these quence of commands tion 2.0 often referred to as software bots can interact which are executed by unassisted. RPA is the next with an in-house applica- Bots under some defined generation of RPA related

> The main goal of Robotics process automation process to replace repetitive and boring clerical RPA does not require the large budget for developdevelopment of code, nor ment work.

mobile device. It is a se- Robotic process automatechnologies. Technological advancements and improvements around artificial intelligence technologies are making it easier for businesses to take adtask performed by humans, vantage of the benefits of with a virtual workforce. RPA without dedicating a



Apache Hadoop for Big Data _Ms. Ashwini Bodakhe (SY-IF)

Apache Hadoop is an open source contributors and users. It is li- Doug, who was working at Yasoftware framework for storage censed under the Apache License hoo! at the time and is now Chief and large scale processing of data 2.0.Hadoop was created by Doug Architect of Clouderas son's toy -sets on clusters of commodity Cutting and Mike Cafarella in elephant. hardware. Hadoop is an Apache 2005. It was originally developed top-level project being built and to support distribution for used by a global community of the Nutch search engine project.

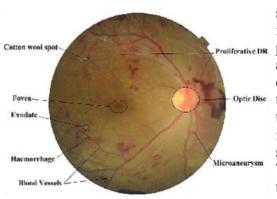
Sport Achievement's

MSBTE has organized Zonal level sports in year of 2019-20. In that competition our students got prizes in various events.

- Bahirat.Sanket 1. Aiinkva Gajare and Rohit Wakade (Winner Badminton)
- Kanad Patil and Anup Pathak(Winner Tabel Tenis)
- Ashutosh Koli and Shardul Bewoor(Runner up carom)
- 4. Omkar Bhosale (Runner up Athletics) **Congratulations all...**

Training Attended

	Faculty	Workshop			
	Mr. A. S. Bhise	MSBTE Sponsored Web Page Designing			
	Mr. S. M. Kawale	MSBTE Sponsored Web Page Designing			
	Mr. S. A. Zambare	Python Pro- gramming			
	Mr. L. B. Dethe	Artifical In- telligance			
	Mrs. G. J. Khare	Artifical In- telligance			
	Ms. C. N. Gund	Python Pro- gramming			
	Congratulations				
	All Rankers of IT Department				



Early detection of Diagroup the evaluation of sistent checking of diabetbetic Retinopathy shields non-proliferative diabetic ic patients, however this patients from losing their retinopathy at any retinal is a testing undertaking as vision because Diabetic image. For that, an under- the malady indicates cou-Retinopathy is a typical lying image preparing ple of manifestations until eye malady in diabetic stage separates blood ves- it is past the indicate patients and is the fundasels, micro aneurysms, where it is conceivable mental cause of visual and hard exudates so as to to give treatment. deficiency in the popuextricate highlights that lace. Thus, this article can be utilized by a calcuproposes automated methlation to make sense of od for image-based classithe retinopathygrade. Diafication of diabetic retibetic Retinopathy is the nopathy. The technique is

MSBTE Winter 2019 Examination: Our Ranker's

Sr. No.	Name of Students	Class	Percentage	Rank
1	Akansha Rajendra Mali	F.Y.	94.86	First
2	Rajnandini Nandu Bhosale	F.Y.	92.43	Second
3	Nishant Baliram Yadav	F.Y.	92.29	Third
4	Vasudev Eaknath Surwase	S.Y.	93.25	First
5	Punam Rajaram Ghadage	S.Y.	92.60	Second
6	Mayuresh C. Hivarekar	S.Y.	92.12	Third
7	Gausiya Ayub Sayyad	T.Y.	93.29	First
8	Ashutosh Shankar Koli	T.Y.	92.00	Second
9	Ajinkya Atul Bahirat	T.Y.	88.29	Third



Early Detection of Diabetic Retinopathy using MI

-Mr. Asutosh Koli (TY-IF)

separated into age tion. sification.

naturally

most successive reasons three for visual debilitation in phases: im- created nations and it is pro- primary source of new cessing, fea- instances of visual defiture extrac- ciency in the working age and populace. By and large, image clas- almost 75 individuals go dazzle each day as an out-The objec- come of DR. A viable tive is to treatment for DR require early finding and con-