

Our Privacy **Continues to Be** Threatened, but a Solution is Coming

All those new technologies, platforms and services gobble up massive amounts of data and more often than not, this data is not very well protected. For the past years, we have seen thousands of data breaches, with, in 2017, the data breach of Equifax as a new low point. Unfortunately, 2018 will not be any different. The more devices we will connect to the internet, the more data we create, the more security breaches we will see. IoT devices are remarkably insecure, thereby continuing to threaten our privacy. Consumers are aware of this as 90% of consumers lack the confidence that their IoT devices are secure. As long as organizations that develop internet connected devices do not take security seriously, and develop products such as cardiac devices that can be hacked or CCTV cameras with serious bugs, this trend will only get worse. 2018 will see continued development of Zero-Knowledge Proof, making our society slowly a little bit more private again.

-Mr. Bhimade S. S.



Department had organized 15 days workshop on **Android** and **Python Programming** for Third Year Student and **PHP** programming for Second Year Students in collaboration with "TechWings International IT Solu**tions"**. The main motive while arranging such workshop is to bridge gap between Academics and Industry and make the student Industry skilled and ready for working.

A Quantum Computing Arms Race Will Lead to First Results

cycle for emerging tech- the latest being IBM who building the world's bignologies, Gartner esti- announced the first 50- gest quantum research mated that quantum qubit quantum proces- facility. computing is still more sor in November 2017. Their objective is to have than ten years away. A 50-qubit quantum pro- a quantum computer by However, the develop- cessor is getting closer to 2020 that has the compuments in quantum com- quantum supremacy, tational power of a milputing are going a lot which IBM now esti- lion times all computers faster than expected. The mates to be at around 57- in the world combined. race for the holy grail of qubits. Quantum supremcomputing is on, and acy is defined as the abilcompanies such as ity of quantum compu-Google, D-Wave or ting to solve problems IBM, universities such which can no longer be as Yale or UNSW or solved with the world's as Computing are all Not only organizations working on developing are working on achievquantum Each of these organiza- premacy, but also countions has reported break- tries are investing bil-

such fastest supercomputer. computers. ing this quantum su-

In this year's hype throughs in 2017, with lions in it. China is



-Mr. P. S. Bhandare

Cognitive Technologies

the cognitive technolo- puter vision and speech sions. gies. These include ma- processing are providing chine learning, computer better and faster insight -Shekhar Chaugule (TYCO)

Artificial intelligence tion, natural language tained in audio, video (AI) refers to computer processing and robotic. and still images, and systems that are able to These technologies are helping to deliver superiperform tasks that nor- helping replicate human or user experiences. At mally require human capabilities across the a decision-making layer, intelligence. There is a spectrum of sensory per- technologies such as madistinction between arti- ception, deduction, rea- chine learning and deep ficial intelligence, a field soning, learning and learning are helping syswith hazy conceptual knowledge. At a sensory tems interpret inforboundaries, and the tech- perception layer, tech- mation and arrive at efnologies that employ it, nologies such as com- fective, informed deci-





15th August 2019

SVERI's College of Engineering (Polytechnic), Pandharpur Department of Computer Engineering

Edge Computing Enables Intelligent Networks

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Department Vision

To provide diploma education strengthened with knowledge and skills along with professional ethics enabling students to reach higher goals in the field of Computer Engineering.

Department Mission

- 1. To impart value based Technical Education in Computer Engineering.
- 2.To support for technical knowledge of students in the field of Computer Engineering.
- 3.To make the students efficient in various skill Sets in Computer Engi-
- 4.To encourage students for lifelong

The Computer Literature..

Edge computing is the The predictions are Levine, a general part-

data at a central location is no longer viable. Not only that, connected devices such drones, driving cars or

In touch we

much time.

robots will, most like- The solution for all to send that data to the ly, require extremely this data that requires cloud, analyses it and rapid processing. Cre- rapid processing is do- return ating the data, sending ing edge computing; would simply not it to the cloud for anal- computations on the work. ysis and returning the sensor itself, albeit at results to the device first this will be done will simply take up too on the device instead of on the sensor. Peter

key factor to make the that in the coming dec- ner at venture capital Internet of Things ade, we will add ap- firm Andreessen Horowork since connected proximately 100 tril- witz, even believes devices will generate lion sensors to our that edge computing so much data that global economy, gen- will slowly take over transmitting, storing erating an unfathoma- cloud computing. Altand analyzing all that ble amount of data. hough that might sound pretty crazy, it also seems very logical. Today, an average self-driving car produces approximately 1 Gigabyte of data per second, which will likely increase in the years to come. Having the results

-Akanksha Pawale (SY CO)

Message of HOD

It is our pleasure to present News Letter "CompLit" of our department. This news letter is one of the ways in which we can disseminate the information about our department. The past semester was full of various activities by the students and faculty in Academic, Co-curricular and Extracurricular activities. As you read through pages, you will realize that we have succeed in academics as well as in different co-curricular activities.

-Mr. A.S. Bhatlavande



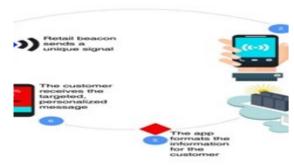


Beacon Technology

Beacons are small, wireless transmitters that use low-energy Bluetooth technology to send signals to other smart devices nearby. They are one of the latest devel opments in location technology and proximity marketing. Put simply, they connect and transmit information to smart devices making location-based searching and interaction easier and more

The beacon device itself is incredible simple. Each device contains a CPU, ra dio, and batteries, and it works by repeat edly broadcasting out an identifier. This identifier is picked up by your device usually a mobile, and marks out an important place in your environment.

The identifier is a unique ID number that your smartphone recognizes as unique to the beacon. Once connected the beacon will carry out whatever function it has been programmed to perform We will go into more detail later on some of the many functions beacon can carry



The Future of Beacons in Marketing: The possibilities of beacon technology in proximity marketing and location-based technology are numerous. As data gathering tools, beacons offer Google a chance to better understand businesses that use their services, as well as the users themselves, in order to improve their algorithm.

Yash Katkamwar (TY-CO)

Amazon Web Services (AWS)

Amazon Web Services provides services from dozens of data centers spread across availability zones (AZs) in regions across the world. An AZ represents a location that typically contains multiple physical data centers, while a region is a collection of AZs in geographic proximity connected by low-latency network links. An AWS customer can spin up virtual machines and replicate data in different AZs to achieve a highly reliable infrastructure that is resistant to failures of individual servers or an entire data center.

Amazon Web Services (AWS) is a subsidiary of Amazon that provides on-demand cloud computing platforms to individuals, companies, and governments, on a metered pay-as-you-go basis. In aggregate, these cloud computing web services provide a set of primitive abstract technical infrastructure and distributed computing building blocks and tools. One of these services is Amazon Elastic Compute Cloud, which allows users to have at their disposal a virtual cluster of computers, available all the time, through the Internet. AWS's version of virtual computers emulate most of the attributes of a real computer including, hardware central processing units (CPUs) and graphics processing units (GPUs) for processing, local/RAM memory, hard-disk storage; a choice of operating systems; networking; and pre-loaded application software such as web servers, databases, customer relationship management (CRM), etc.

The AWS technology is implemented at server farms throughout the world, and maintained by the Amazon subsidiary. Fees are based on a combination of usage, the OS/software/networking features chosen by the subscriber, required availability, redundancy, security, and service options. Subscribers can pay for a single virtual AWS computer, a dedicated physical computer, or clusters of either. As part of the subscription agreement, Amazon provides security for subscribers' system. AWS operates from many global geographical regions including 6 in North America.



-Pragati Gund (TY CO)

DEPARTMENTAL RESULT FOR A.Y. 2018-19

Sr. No.	Name of Student	Marks %	Class
1	Pawale Akanksha Ganesh	93.87	FYCO
2	Pawar Nupur Nilesh	91.50	FYCO
3	Rajeshwari Dharmraj Ghodake	90.75	FYCO
4	Pujari Mahananda Sidgonda	90.40	SYCO
5	Ranpise Priti Pandit	89.47	SYCO
6	Gund Pratiksha Pandit	88.93	SYCO
7	Khadake Siddhesh Jagadish	92.38	TYCO
8	Korade Rushikesh Shrikant	92.25	TYCO
9	Vasekar Priti Ramesh	91.13	TYCO

STUDENT ACHIEVEMENTS FOR A.Y. 2018-19

NAME OF STU- DENT	SUBJECT	MARKS	CLASS
Pawale Akanksha Ganesh	EEC	100	FY CO

2nd Rank in MSBTE State level Project Competition -Mr. Zambare S. A.

Solapur Rural Police sponsored one jay Ghodawat Polytechnic Kolhawebsite and an Android App are award worth Rs 21,000/developed for distributing and con- Using this application, police detrolling police Bandobast through partment can control the duty alloan online system. The first testing cation and attendance of each and of this software was held in the every on duty official. month of December 2018 for VIP In case of any emergency, duties BandobastIn the month of March can be rearranged as per the availa-2019, MSBTE organized **State** bility of the reserve staff. Level Project Competition at San-

project on Online Police Bandobast pur. In the project competition, the (Management) System which is project received the second prize named as BAAS (Bandobast Allo- worth Rs. 50,000. Similarly, in cation and Attendance System). SKN Sinhgad College, Pune the According to their requirement, a project achieved the best project

15th August 2019

FACULTY ACHIEVEMENT

Faculty	Workshop	
Mr. M. K. Jadhav	Industry 4.0	
Ms. M. P. Pawar	Industry Consulting	
Ms. J. S. Pawar	High Speed Digital Sys- tem	
Mr. P. S. Bhandare Ms. J. S. Pawar	R- Programming	

EDITORIAL

Its our pleasure to present this issue of COMPLIT with new design. We are thankful to all faculty members and student friends for their co-operation. We will continue the journey of learning and implementing technologies in future also.

Thank you all...!

Mr. P. S. Bhandare Mr. Zambare S. A.

This project is de- Tejas Patil, Yashraj veloped by teachers Chavan, Dhawal Mr. S. A. Zambare, Dyavanpalli, Rohit Mr. A. S. Bhise. Konde, Prajwal Ben-A.S. Bhatlavande, dale, Abhishek Mr. P. S. Bhandare Warpe and Atharv students Ruplag. and Siddhesh Khadake,



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