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DEPARTMENT OF INFORMATION TECHNOLOGY

IT PRAGNA – Department Magazine

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Mobile Computing

Mobile Computing is the advanced and developing computer application that allows voice and video transmission in the form of data through a computer or wireless devices without any further linking. The main objective of mobile computing is to provide *User Mobility* and *Device Portability*. It was a newly emerging technology in network and communication, which allows the mobile host (Mobile Phone) to compute when it changes its location. The modern way of mobile computing view as any electronic device that helps us to organize our life, communicate with co-workers or friends, or do our job more efficiently is part of mobile computing.

Mobile computing recently has major research in cloud let-based mobile computing, context-aware networking; programming support for context-aware and sensor-rich environments, user-controllable security and privacy for pervasive computing, urban computing, wearable computing, self-managing chaotic wireless networks, VM-based hands-free mobile computing, secure interactions, and trust establishment, and living analytics.

Mobile computing has its fair share of security concerns as any other technology. Due to its mobile and nomadic nature, it is not easy to monitor the proper usage. Users might have different intentions on how to utilize this privilege. Improper and unethical practices such as hacking, industrial espionage, pirating, online fraud, and malicious destruction are some but a few of the problems experienced by mobile computing.

If we observe recent trends, *The Internet of Things* (IoT) and its interplay with mobile computing is growing fast and will power a plethora of future applications in domains, such as manufacturing, healthcare, agriculture, and smart cities, among others. Thanks to advancements in hardware and software technologies, such as the introduction of dedicated onboard graphics processing units (e.g., Google Pixel with Qualcomm Adreno 530 GPU), advanced *machine learning* and *deep learning* algorithms on mobile devices (enabling federated learning), and access to

Contextualization information from IoT sensors, the computing capability of multi sensory smart mobile devices with internet connectivity has dramatically improved.



No company wants to lay open its secrets to hackers and other intruders, who will in turn sell valuable information to their competitors. It is also important to take the necessary precautions to minimize these threats from taking place. Some of those measures include – Hiring qualified personnel, installing security hardware and software, Educating the users on proper mobile computing ethics, Auditing and developing sound, effective policies to govern mobile computing, and enforcing proper access rights and permissions.

The main motive behind mobile cloud computing is to improve the mobile user by providing rich functionality, regardless of the resource limitations of mobile devices. In the future mobile cloud computing, could become the major model for mobile applications.



Article By:
Mr B. Avinash
Asst Professor

Robotic Process Automation

Robotic Process Automation, commonly known as RPA, is revolutionizing the world of software much like how actual robots have been changing the world we live in. RPA requires zero human interaction to function. A conventional calculator requires partial human involvement, whereas RPA does not need any form of human touch. Instead of a storekeeper standing behind a desk performing the same tasks over and over, vending machines conveniently dispense a diverse range of products indefinitely. In other words, RPA imitates a user's actions at the user interface level.



EXPECTATIONS FROM RPA:

RPA extracts information from time sheets, addresses queries, makes calculations, maintains records, and performs transactions. Though it possesses human like capabilities, it in no way can completely replace humans, especially human involving functions. RPA takes place in minimizing errors. If RPA is correctly set up, it reduces the number of errors humans frequently make. To be more accurate, it removes the need for hiring employees to carry out exciting tasks. Consequently, when workers are released from uneventful tasks, they can focus on more exciting duties such as interacting with customers and brainstorming during meetings, which RPA cannot perform just yet.

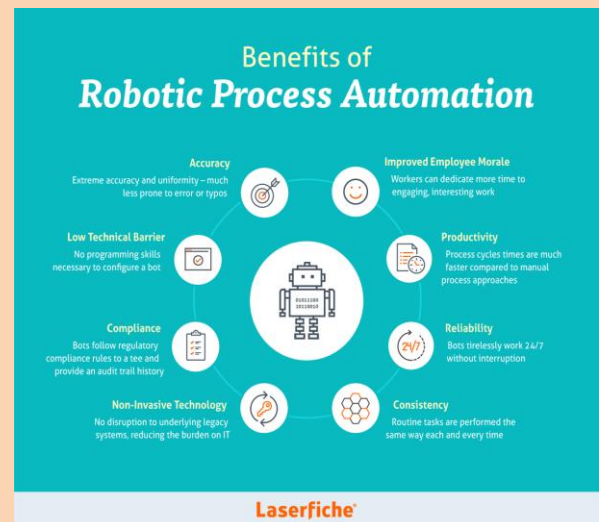
Hence, RPA still has a long way to go in acting as an efficient substitute for human beings in the workplace.

PERFORMANCE OF RPA IN OUR DAILY LIVES:

RPA is frequently used in banks as well, as it allows for the automatic processing of payments, deposits, and withdrawals, as well as other banking operations.

RPA is definitely making everyone's lives way easier. Employees might be encouraged to explore their limits, talents, and strengths rather than being fired when manpower cannot be sustained. This will further increase their status as remaining relevant despite the fact that automation is taking over their work environment.

However, when too much automation is used in the workplace, more robots are intentionally added to perform more tasks. As a result, there is a risk in maintaining a massive collection of robots, which poses additional, such as becoming more expensive to manage and maintain over time.



Article By:
P. Rishi Varsha
20BQ1A12D4



Virtusa Training and Certification to IT students

Keeping in view our motto 'Every one counts', VVIT has taken strides playing a pivotal role assuring all students should have an offer letter before the completion of their B. Tech. Training and Placement cell coordinates all activities related to placements acting as Facilitators and mentors. T&P gears up aspirants by contributing significantly giving them invaluable information and updates.

In this regard, the “Jatayu Ideathon – Season 2” hackathon is an exclusive competition conducted by Virtusa for third-year students, which gives them an opportunity to build an idea all the way from the envisioning stage to final product. The competition focuses on developing innovation for product servitization, digital wallet for connected things, intelligent edge, AI-based content moderation, and automation game testing in the manufacturing, healthcare, banking and financial services, insurance, telecommunications, media, and entertainment industries. This hackthon contains 3 stages of competition.



Mrs. CM Suvarna Varma, Assoc.Prof -IT faculty gets PhD form Gitam University

Mrs. C M Suvarna Varma, Associate Professor in the Department of Information Technology of Vasireddy Venkatadri Institute of Technology has been conferred with the award of the Degree of Doctor of Philosophy (PhD), in Information Technology from Gitam University, Visakhapatnam. Sri Vasireddy Vidya Sagar, Chairman of VIVA-VVIT Institutions, informed that Mrs. C M Suvarna Varma, achieved the degree from the Gitam (Deemed to be University), Visakhapatnam, in the area of Faculty of Engineering, for her thesis entitled “Incremental Partial Periodic and classified high utility item set mining over medical datasets”, under the Supervision of Prof. Y. Srinivas on 20th August 2021.



Associate Professor



Art By:
P. Rishi Varsha
20BQ1A12D7



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20BQ1A1214



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20BQ1A1245



Article By:
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20BQ1A1224



Article By:
B. Sasank Reddy
20BQ1A1223

It is an immense pleasure to stay connected to VVIT. The place where I explored a lot of things about myself. VVIT taught me how to face the outer world with confidence. VVIT is known for its discipline and how especially they treat their students. The events that VVIT organize are very useful to us in many ways like I explored many qualities of mine that I thought never existed. The Student Activity Council (SAC) is one of the best implementations made by the college.

SAC is a place where I myself learn many skills such as Management, organizing events and the most important skill is leadership. SAC is a reason that I can speak with confidence which is much needed to face the world. Faculties in VVIT are highly qualified and exactly know how to teach students. The teaching methodology adapted by the faculty is top notch.

The faculty here encouraged me to learn from my mistakes instead of being sad about them. Our lectures used to teach us or at least keep us informed about the latest trends in technology. I am currently working as a data analyst at Cognizant. The skills that Are learn from VVIT really helped a lot in accomplishing what I am today. Integrity, Self Confidence, self-discipline are the pillars to my success in which VVIT played a crucial role in teaching them. The days that I spent in VVIT are indelible and I am forever grateful to VVIT.



K. Indu Bharathi
15BQ1A1220

One of the most interesting stages in life that gives me an opportunity to Explore is the "College Phase".

VVIT is unique its field. Discipline is like in the air of the environment. I am so grateful to be the part of this college .There are so many opportunities to develop one's personality in any field like, cultural, literature and many more. It was very precious and golden phase of my life. The entire faculty and other members of this institution are very cooperative.

VVIT is what everyone expects to be. The pleasant environment which attracts the students to be in the college every day. Moreover, apart from studies, we also enjoy the Co-curricular activities. VVIT also conducts cultural fest as well as technical fest every year and also the the best part is MOVIE PROMOTIONS, which attracts us to go near the OAT. MY experience as a SAC made me to get rid of my fearless and also made me to learn the event managing abilities, leadership qualities.

Teachers made me do work hard for the way to success. Just want to thank to the wonderful faculty of VVIT. The college has molded my personality and clarified my vision of the future. I am very grateful to the Institute for providing guidelines and motivation to inspire me to achieve my goals. VVIT let us fall by our own but made us climb on the ladder to success.



A. Bindu Priya
15BQ1A1202



Department Vision:

To produce IT professionals who can develop globally competitive and socially useful information technology enabled solutions and products that offer cost effective solutions, for organizations, in particular and society in general, through their innovative ideas, and to create a knowledge pool through research in this field.

Department Mission:

1. Producing information technology professionals for the Global IT industry.
2. Developing student centric and qualitative teaching-learning practices.
3. Establishing infrastructure that endows cutting edge technology requirements of the industry.
4. To extend service to the public, the state and the nation at large by building quality engineers.
5. To carve disciplined and socially, technologically better responsible citizens.
6. To make the students pursuing information technology the technological ambassadors of VVIT in whatever part of the world they find themselves in their future careers.

Program Educational Objectives (PEO'S):

PEO-1: Solid Foundation and Core Competence

To provide the graduates with concrete base in Information Technology, to pursue higher studies and to succeed in industry / technical profession with global competence by imparting acute technical skills like designing, modelling, analyzing and problem-solving on top of solid foundation in mathematical, scientific, computing and engineering fundamentals.

PEO-2: Employability & Research Spur

To train the graduates for a higher degree of employability in both public and private sector industries at national and international level by imparting ability to Re-learn and innovate in ever-changing global economic and technological environments and to contribute effectively in research and development.

PEO-3: Professional Skills and Societal Contribution

To inculcate the graduates to have basic interpersonal skills, effective communication skills to teamwork/ lead in multidisciplinary approach, under diverse professional environments by handling critical situations through lifelong learning with an ethical attitude (administrative acumen) and an ability to relate engineering issues to broader social context.

PEO-4: Real World Competency & Innovation

To enable students with good scientific and engineering breadth and technology skills so as to comprehend, analyze, design, and create novel products and solutions for the real-life problems to emerge as researchers, experts, educators & entrepreneurs.