January 2022
vol 1
Issue 12

PIXELS

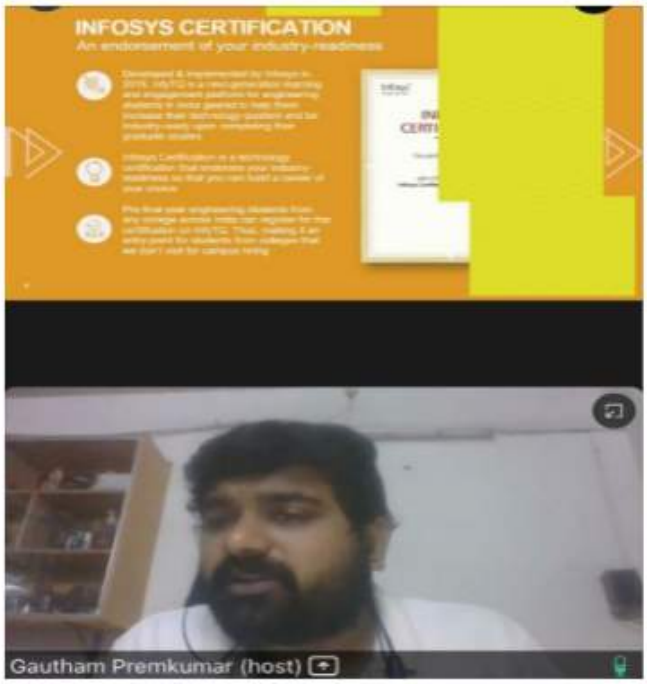
Department of Computer Science and Engineering

INDUSTRY-ACADEMIA INTERACTION

The Department of CSE organized an interactive session as a part of industry - institute interaction by Inmakes Pvt Ltd, Kochi on 7 January 2022. Inmakes infotech is a software development and web development company located in kerala. They provided best-in-class services on software development, software testing, web application development, web hosting etc.

HackWithInfy 2022

The Department of CSE organized a Webinar as part of Industry Academia Interaction on 15 January 2022 on the topic HackWithInfy 2021 for S5 (2019 - 2023 Batch) in association with Infosys, Gautham Premkumar, Talent Acquisition, Infosys and on 29 January 2022 for S3 (2020 - 2024 Batch) in association with Niranjana B, Associate Lead,Talent Acquisition, Infosys was the resource persons. HackWithInfy provides the perfect stepping-stone for students to explore their interest in programming and an opportunity to compete and win exciting prizes. The top performers will also earn a chance to work with Infosys. All students from S5 (2019-2023 Batch), S3(2020-2024 Batch) B. Tech CSE, have participated.



PLACEMENT

Ms. Goykoshya (2017-2021 batch) got placed as Associate Developer at UST Global, Kochi. Congratulations.

Ms. Anjali C. A. (2018-2022 batch) got placed as Junior Software Engineer, Poornam Info Vision Pvt. Ltd, Kochi. Congratulations.

Ms. Anakha Krishna C. R. (2018-2022 batch) got placed as Junior Software Engineer, Poornam Info Vision Pvt. Ltd, Kochi Congratulations.

CONGRATULATIONS

Malika Joshi (S7 CSE), selected as Magazine Editor in College Union 2022. Congratulations to Malika.

TECH SAVVY

Rakendhu Ravi (S7 CSE)

THE DEVELOPMENT OF RPA: PAST, PRESENT, AND FUTURE

Evolution of Robotic Process Automation (RPA)

Robotic process automation (RPA) is the combination of several technologies, brought together under one toolkit for different automation purposes. Though the term 'RPA' emerged in the early 2000s, the initial development was started after the 1990s. 'Machine Learning (ML)' is one of those technologies that helped towards innovation, which eventually led to the creation of RPA. Robotic Process Automation is a growing technology with several benefits.

Robotic process automation streamlines workflows, which makes organizations more profitable, flexible, and responsive. It also increases employee satisfaction, engagement, and productivity by removing mundane tasks from their workdays.RPA is noninvasive and can be rapidly implemented to accelerate digital transformation. And it's ideal for automating workflows that involve legacy systems that lack APIs, virtual desktop infrastructures (VDIs), or database access.

Things like mechanization and robotics used to summon up images of machines with human-like limbs in our thoughts when we heard such terms. But that is no longer the case. Today, we live in an age in which automation is assisting organizations in every sector throughout the globe in their efforts to achieve efficiencies that result from the replacement of manual work with machine - operated jobs. RPA Implementation services and Artificial Intelligence(AI) are two types of management technologies that organizations are using for corporate development in order to stimulate better imagination, production, and originality among workers. As a consequence, there has been a notice-able rise in consumer involvement as well as new income sources. Through the removal of the stress of repetitive and boring and dull jobs, automating has been shown to increase staff efficiency by 80% while decreasing employee satisfaction scores by 50%. As a result, there has been a significant growth in the number of firms
that have placed technology at the heart of their digitization initiatives in present years.

Benefits of RPA services for several businesses

1. Expand the company's operations:- Managing machines and the amount of robots employed by a corporation is much less difficult than employing, training, and moving individuals to do particular duties in that organization. By using the machine's power, we can not only recreate the complete working belt but also secure the scalability of the company, allowing us to operate on fronts and in location that we would have never believed possible with a human workforce
2. Enhancing Data Quality: - Depending on the company, data quality may signify a variety of different things. It is critical for enterprises of all sizes to improve the quality of their information. If an organiz-ation does not have access to clean, verified, and high quality data, it may suffer from readily preventable mistakes that may be very expensive to the business. RPA will assist you in reducing workload, boosting productivity, and redirecting your human resou rces to provide more value for your customers. This will result in an increase in the profitability of your company as well as an increase in employee motivation.
3. Accuracy and High-Quality:-In operations where there is a high likeli hood of human mistake, robotic process automation (RPA) improve services while boosting accuracy. Robots are dependable and consistent, and they do not complain when they are forced to work long hours. They also significantly minimize the number of rework situations and significantly increase the output quality. The greatest thing about this is that robots adhere to all regulations to the letter, resulting in 100 percent accuracy in the process outcomes. Also, RPA Implementation services technolgy's ability to be implemented in a very short period of time. RPA enhances capabilities that increase the overall capability of a company.
4. User-Friendly:- RPA does not require a special kind of knowledge, such as coding, programming, or deep IT skills. RPA software is user-friendly, easy to understand, and easy to use. RPA tools allow users to create bots quickly and effortlessly by capturing mouse clicks and keystrokes with a built - in screen recorder component. Some of the RPA software includes the option to create and edit bots manually using the Task Editor.

5. Security :- When an organization is running on automation, more users will demand access to RPA products. Therefore, it is im portant to have robust user access management features. RPA tools provide options to assign role-based security capabilities to ensure action specific permissions. Furthermore, the entire aut omated data, audits, and instructions which an be accessed by bots, are encrypted to avoid any malicious tampering. The enterpr ise RPA tools also offer detailed statistics of the logging of users, their actions, as well as each executed task. Thus, it ensures inte rnal security and maintains compliance with industry regul ations.

Future of RPA

Over the last several years, the field of robotic process automation has evolved at an exponential rate. As the need for robotic process automation (RPA) rises in the RPA industry, this is due to the promise that it holds: software robots can eliminate monotonous, rule-based, tedious, manual digital operations.Companies may also benefit from it since it assures that their operational procedures are error-free.

Today, RPA is driving new efficiencies and freeing people from repetitive tedium across a broad swath of industries and processes. Enterprises in industries ranging from financial services to healthca re to manufacturing to the public sector to retail and far beyond have implemented RPA in areas as diverse as finance, compliance, legal, customer service,operations, and IT. And that's just for starters.RPA has become so widespread because it is broadly applicable. Virtually any high-volume, business-rules-driven, repeatable process is a great candidate for automation and increasingly so are cognitive processes that require higher-order AI skills.

RPA has provided an excellent solution for organizations to replace repetitive, mundane, rule-based processes with software bots. It is now helping organizations who are looking to increase their work flow accuracy and efficiency. First, RPA was widely adopted in the IT sector. It amazed many big organizations as well as small and medium enterprises witch outstanding results. Later, it was adopted in other sectors like Finance, Accounting, Banking, etc.

Robotic Automation is a combined workforce of human and software robots that allows us to automate rule-based, repetitive tasks. This innovation is expected to create a wider set of career opport-unities for job seekers. Since it is emerging technology.

The next step, which some organizations are already taking, is to blend attended automations and RPA with artificial intelligence (AI) and machine learning tools. Variously known as intelligent auto-mation,intelligent process automation and cognitive RPA, thisclass of solutions enables enterprises to automate more complex, less rule-based tasks. Cognitive automations are able to handle excepti-ons and orchestrate decisions spanning entire processes, compared to RPA, which is about executing repeatable tasks with the highest level of efficiency. Whereas traditional RPA automates processes based on data in structured databases, intelligent automation can also work with unstructured data sources, including scanned docu-ments, emails, letters and voice recordings.