MAGAZINE

ISSUE NO: 116
September 30, 2022

# Byte Quest

Department of CSE


FULL STACK WEB DEVELOPMENT

ROBOTIC PROCESS AUTOMATION

PRIVACY COMPUTATION

VIRTUAL VS AUGMENTED REALITY

## *Department Vision*

*To be a center for academic excellence in the field of Computer Science and Engineering education to enable graduates to be ethical and competent professionals.*

## *Department Mission*

*To enable students to develop logic and problem solving approach that will help build their careers in the innovative field of computing and provide creative solutions for the benefit of society.*

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# FULL STACK DEVELOPMENT


Full stack development refers to end to end applications software development including frontend and backend. Frontend consists of user interface and backend consists of business logic and application workflows. It is a sought after career option today.

Full stack developers must have knowledge of an entire technology i.e., set of technologies that are used to build an end to end application quickly and efficiently. They should be able to judge whether the selected technologies are the right choice for their project during early phases.

# ROBOTIC PROCESS AUTOMATION

RPA is a software technology that makes it easy to build, deploy and manage software robots that emulate humans actions interactinG with digital systems and software.

RPA streamlines workflows, which makes organizations more profitable, flexible and responsive. It also increases employee satisfaction and productivity by removing mundane tasks from their workdays. Today RPA is driving me efficiencies and freeing people from repetitive tedium across a broad swath of Industries and processes.

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## PRIVACY COMPUTATION

Privacy enhancing technologies are those that embody fundamental data protection principles by minimizing personal data use, maximizing data security and empowering individuals.

This group of technologies support privacy and data protection and provide safeguards against violations and hacker attacks. These technologies have been around for sometime but it is only recently they have been used for real life applications and use cases.

The benefits of implementing Privacy enhancing technologies are to prevent data from malicious users, tackling undetermined and unfair conditions, avoid possibilities of misprotection and avoiding violation of human dignity.

Some techniques of Privacy enhancing computation are zero-knowledge proofs, multi party computations, homomorphic encryption, differential privacy. So organizations should start leveraging a wide range of privacy enhancing computation technologies to protect consumer data in different ways.

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## VIRTUAL VS AUGMENTED REALITY

Augmented reality and virtual reality are reality technologies that either enhance or replace real life environment with a stimulated one. Virtual Reality creates an immerse virtual environment while Augmented reality augments a real world scene.

Both virtual reality and Augmented reality are designed to bring a simulated environment to the user, each concept is unique and involves different use cases. Business and enterprise use cases are the predominantly reality applications of AR. Some key examples include design and construction, training and education and health care. Both the technologies are future most requisite one's and these generations should try to upgrade these technologies further.

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