How is automation with AI helping you?

Reduce the time you spend building integrations by up to 80%

- Automated process mapping mines system logs and human activity traces to discover opportunities for automation.
- Match data structures between systems with algorithms that provide suggestions not only for flat fields but also for nested complex objects, arrays and custom objects.

Automate use cases that wouldn't be possible without AI

- Eliminate manual document processing with advanced OCR and data extraction.
- Find root causes and past solutions to IT management problems using advanced language models.
- Operate beyond human scale by combining pattern recognition, predictive analytics and business rules.

Make your employees more efficient at the edge

- Learn from past performance to prioritize tasks and help employees do their best work.
- Save valuable employee time for complex issues. Resolve mundane requests and trigger automated processes in real time without human intervention using intelligent virtual agents.

What is robotic process automation

Robotic process automation (RPA), also known as software robotics, uses automation technologies to mimic back-office tasks of human workers. It combines APIs and user interface (UI) interactions to integrate and perform repetitive tasks between enterprise and productivity applications.

RPA and intelligent automation

Intelligent process automation demands more than the simple rule-based systems of RPA. You can think of RPA as "doing" tasks, while AI and ML encompass more of the "thinking" and "learning," respectively. It trains algorithms using data so that the software can perform tasks in a quicker, more efficient way. **CSTech is Backed by an intelligent workforce that progressively tackles tasks wherever they're needed, intelligent automation expands the scope of work your business can automate, increasing efficiency gains and return on investment.**

RPA and artificial intelligence

At CSTech we understand the critical difference that RPA is process-driven, whereas AI is data-driven. RPA bots can only follow the processes defined by an end user, while AI bots use machine learning to recognize patterns in data, in particular unstructured data, and learn over time. Put differently, AI is intended to simulate human intelligence, while RPA is solely for replicating human-directed tasks. While the use of artificial intelligence and RPA tools minimize the need for human intervention, the way in which they automate processes is different. **CSTech's team is well versed to maintain it in its practice.**

The benefits of RPA with US

There are multiple benefits of RPA, including:

- RPA does not necessarily require a developer to configure; drag-and-drop features in user interfaces make it easier to onboard non-technical staff. **This help us to utilize our all the resources.**
- Since RPA reduces the workload of teams, staff can be reallocated towards other priority work that does require human input, leading to increases in productivity and ROI. **With this we are way efficient in giving output in no time.**
- **CSTech can achieve the targets in no time with high delivery rate** since, bots and chatbots can work around the clock, they can reduce wait times for customers, leading to higher rates of customer satisfaction.
- **By lifting repetitive, high-volume workload off the team, and allowing team to focus on more thoughtful and strategic decision-making. Our teams is more relaxed and concentrated towards clients satisfaction.**
- Since **we** can program RPA robots to follow specific workflows and rules, **we** can reduce human error, particularly around work which requires accuracy and compliance, like regulatory standards. **With RPA we** provide an audit trail, making it easy to monitor progress and resolve issues more quickly
- **RPA** software does not cause any disruption to underlying systems because bots work on the presentation layer of existing applications. **So, we implement bots in the absence of API to deal with the challenge.**

Challenges of RPA

While RPA software can help an enterprise grow, there are some obstacles, such as organizational culture, technical issues and scaling. **CSTech is efficient in achieving these challenges.**

Sage maker

Amazon SageMaker is a fully managed service that provides every developer and data scientist with the ability to build, train, and deploy machine learning (ML) models quickly. SageMaker removes the heavy lifting from each step of the machine learning process to make it easier to develop high quality models.

Traditional ML development is a complex, expensive, iterative process made even harder because there are no integrated tools for the entire machine learning workflow. You need to stitch together tools and workflows, which is time-consuming and error-prone. SageMaker solves this challenge by providing all of the components used for machine learning in a single toolset so models get to production faster with much less effort and at lower cost.

Build machine learning models

- **We have** Improved productivity using Amazon SageMaker Studio, the first fully integrated development environment (IDE) for machine learning. Amazon SageMaker Studio provides a single, web-based visual interface where we perform all ML development steps. SageMaker Studio gives us complete access, control, and visibility into each step required to build, train, and deploy models
- **CSTech provide the business solutions at cheapest rate as we can** reduce data labeling costs by up to 70% using Amazon SageMaker Ground Truth.
- **CSTech has** Automatically build, train, and tune models with full visibility and control, using Amazon SageMaker Autopilot **leading to the more accurate and in time result**
- **CSTech can deliver at fastest pace as we can** Build and collaborate faster using Amazon SageMaker Notebooks
- **CSTech's products are more to the clients' satisfaction centric where we achieve full business requirements and expectations by Analyzing and detecting the problems for machine learning using Amazon SageMaker Debugger**
- **CSTech provides the most efficient, smart and well trained resources at** Lower training costs, by 90%.

Deploy machine learning models

One-click deployment

Amazon SageMaker makes it easy to deploy trained model into production with a single click so that we can start generating predictions for real-time or batch data. At one-click we can deploy our model onto auto-scaling Amazon ML instances across multiple availability zones for high redundancy. Just specify the type of instance, and the maximum and minimum number desired, and SageMaker takes care of the rest.

- **CSTech delivers the accurate results as we Keep models accurate over time using Amazon SageMaker Model Monitor. As it allows developers to detect and remediate concept drift.**
- Integrate with Kubernetes for orchestration and management . Kubernetes is an open source system used to automate the deployment, scaling, and management of containerized applications
- **CSTech provides the solutions at lowest rates as we Lower the machine learning inference costs by up to 75% using Amazon Elastic Inference**.
- **CSTech provides the ultimate cloud security solutions to its clients' by using the SageMaker as AWS uses a shared responsibility model, which involves security in the cloud by AWS for securing the infrastructure and security of the cloud, which involves the services opted by a customer, IAM key management, and privileges to different users, keeping the credentials secure, etc.**
- **CSTech not only provides the cloud security solutions but also the data security also to its clients' as SageMaker keeps the data and model artifacts encrypted in transit and rest. Requests for a secure (SSL) connection to the Amazon SageMaker API and consol**e.
- **CSTech delivers the products even in tight time bounds or tough timelines** As the SageMaker helps in easing the ML pipeline and make the process quick.