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Newgen's
AI Cloud Platform

Artificial intelligence (AI) enabled products and services are revolutionizing how we think about business. Organizations across the world are accelerating their AI adoption initiatives. As suggested by a Gartner report, "*By 2025, 70% of organizations will have operationalized AI architectures due to the rapid maturity of AI orchestration initiatives.*"

*Adopting AI/ML solutions is a business imperative. However, scaling AI remains **a big challenge and a bigger opportunity!***

- 84% of C-suite executives deem AI to be **important** for their **growth objectives**
- 75% believe they **risk going out of business** if they don't scale AI in 5 years
- **76% C-Suite executives struggle to scale AI**

Walking the AI/ML Path: **Common Challenges Encountered by Organizations**

AI/ML-enabled solutions can prove to be key differentiators for businesses by utilizing various forms of data to derive intelligence, such as analyzing trends, identifying critical insights, and discovering new business opportunities. This data intelligence can be easily translated into smart decisions, enhanced operational efficiency, improved customer satisfaction, and higher revenue.

As IDC predicts that worldwide data will reach **175 Zettabytes** by 2025, many organizations are in a hurry to leverage this ever-increasing data by integrating AI/ML systems into their operations. But the journey of building an AI/ML-proof model can be full of hurdles:

1 High Infrastructure Expenses

A significantly high upfront cost of acquiring infrastructure such as software, hardware, and other resources, as well as their management, acts as a roadblock in incubating and scaling AI/ML initiatives in an organization.

2 Time-taking Process

The average time for building and deploying an AI/ML-enabled model is too long, often lasting two or more months. With an ever-increasing pace of data generation, such a slow deployment model is not only inefficient but also increases your monetary risks.

3 Unstructured, Multi-format Data

More than often, data is present in unstructured and multiple formats. The traditional process of cleansing, labeling, and organizing this data is inefficient and slow, which hampers your ability to generate real-time insights and timely re-training your AI/ML model.

4 Lack of Skilled Resources

Organizations need domain experts to develop algorithms and models and professionals who can pass on the data to these experts after deriving valuable insights. Due to high data flux, there will be a shortage of these experts in the future. Data scientists shall also require special tools to create, manage, and deploy ML models at scale.

5 Computing Power

Training and running AI/ML models at scale require a high level of expensive computational power. Also, heterogeneous computing is needed to derive real-time insights using AI/ML, ensuring instant inferences are triggered while interacting with customers worldwide. Building such computational resources in-house involves high upfront costs and uneven utilization during model building, training, and execution stages.

6 Lack of Trust and Transparency

Though AI/ML models have seen industry-wide adoption in both sensitive and non-sensitive areas, the ethical issues concerning these domains remain. A lack of transparent reasoning behind the automatic decision-making by algorithms hampers trust in the created model.

How Newgen's AI Cloud Platform Can Fast-track Your AI/ML Journey

Newgen with its AI Cloud platform, automates the entire life cycle of data science projects. By leveraging an intuitive AI Studio, our platform increases productivity, fosters collaboration, and speeds up data science project execution to accelerate data to insights journey.

Data to Insights Journey

Prepare: Blend, integrate, cleanse, and prepare data at a massive scale for ML and analytics projects

Visualize: Explore and visualize data for interactive statistical analysis and reporting using charts and various other visualization techniques to understand and share data insights

Train: Build and train advanced machine learning models using the intuitive drag 'n' drop modeling studio for rapid model development, experimentation, and evaluation

Deploy & Monitor: Deploy, monitor, and manage ML models in production

Automate: Automate recurring tasks like feature engineering, ML, and model deployment & retraining

Collaborate: Collaborate among multiple stakeholders and share data assets and resources

Newgen's AI Cloud Platform to help you **accelerate AI/ML adoption**

1 Data Science for Everyone

Newgen's AI Cloud platform has a visual and intutive drag 'n' drop interface, allowing non-coders to leverage their domain and business skills to contribute to data science projects

2 A Unified Platform for Complete AI/ML Lifecycle

Integrating data ops, model development, and ML ops capabilities with a unified low code platform to enable data to insights journey in no time

3 Collaboration

Sharing pipelines, models, and other assets across the enterprise. Ability to use interactive and video help sections to upskill as you work. The platform's intuitive studio helps various data stakeholders, including domain experts, business analysts, data engineers, data scientists, and ML ops, to collaborate, build, and deploy AI/ML models quickly to drive business value in a matter of days

More on Newgen's Solution:

- Secure Multi-tenant, Multi-user Architecture
- No-Compute Infra Procurement and Management
- No Upfront Investment – **100%** Subscription-based
- Visual AI Cloud Platform as a Service – **Plug 'n' Play**

4 Visual Studio

Rapidly building machine learning, deep learning, and graph models through Newgen's intuitive visual studio

5 Process Intelligence

Leveraging process mining, process discovery, self-learning automation, and enabling analysis by capturing end-to-end process data into data lakes

6 Model development and deployment

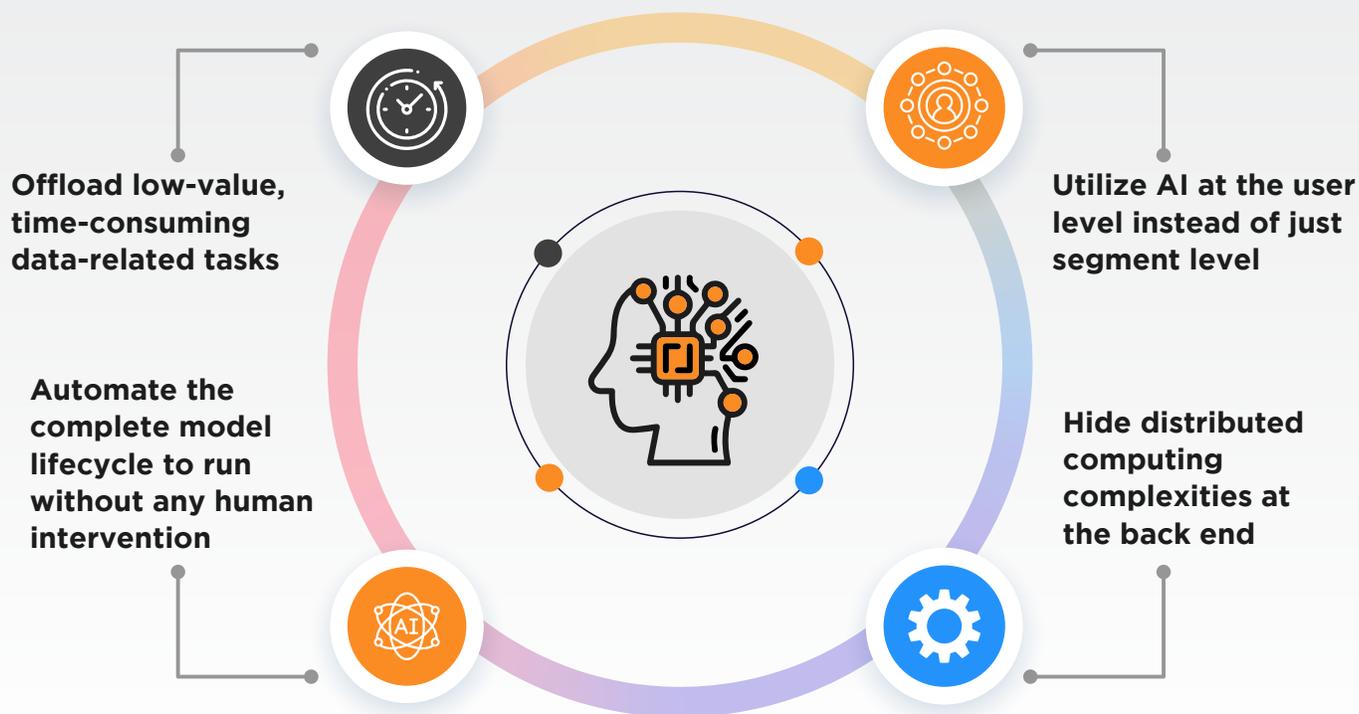Ability to build intelligent domain-specific models, including credit underwriting, collection scorecards, and fraud models

In addition, the platform offers a flexible and scalable deployment model (on-premise, private cloud, and as SaaS), leveraging customers' current infrastructure investments.

Newgen's AI Cloud Platform **Empowering Citizen and Expert Data Scientists** to:

Offload low-value, time-consuming data-related tasks

Automate the complete model lifecycle to run without any human intervention

Utilize AI at the user level instead of just segment level

Hide distributed computing complexities at the back end

Key Benefits to Unlock with Newgen

Rapid scalability

by leveraging AI Cloud SaaS platform

Faster development

by reducing average development time by up to 40%

Personalized solutions

by enhancing control over the development and customizing the required solution

Simplifying AI journey

by hiding the distributed computing complexity in the back-end and automating the complete model lifecycle

Newgen's AI Cloud Platform **Solves for Multiple Use Cases Across Industries**

A glimpse into some of the common use cases:

◆ Helping banks with credit risk scoring, fraud detection, collection optimization, and credit card transactions

◆ Mapping user trends to provide personalized loan offerings

◆ Building customer-level insights to help enterprises drive effective campaigns

◆ Classifying an insurance claim as fraudulent in real-time to reduce revenue leakage

◆ Enabling health insurance coverage checks and analysis of vehicle photographs

◆ Increasing warehouse capacity utilization by predicting prices, improving your decision to store or sell

◆ Computing customer lifetime value and reducing churn

◆ Determining customer-level next-best-action for deeper engagements

About Newgen

Newgen is the leading provider of a unified digital transformation platform with native process automation, content services, and communication management capabilities. Globally, successful enterprises rely on Newgen's industry-recognized low code application platform to develop and deploy complex, content-driven, and customer-engaging business applications on the cloud. From onboarding to service requests, lending to underwriting, and for many more use cases across industries. Newgen unlocks simple with speed and agility.

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April, 2022