KenAI Overview

Accelerate your MLOps journey

18 January 2023

Powered On Microsoft Azure
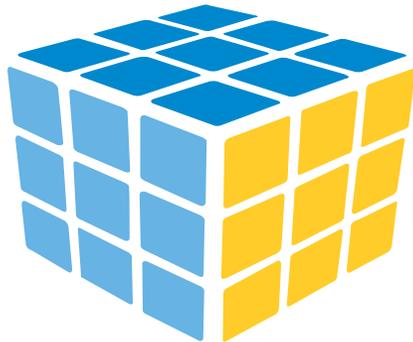
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KenAI – Accelerate MLOps Journey at Scale

STANDARDIZE & STREAMLINE
Integrated MLOps to standardize and streamline model life cycle management across Azure cloud platform
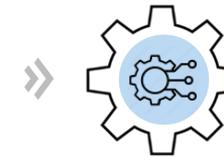
SIMPLIFY MODEL MANAGEMENT
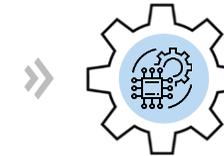Integrate mechanisms having comprehensive testing, explainability & monitoring for models

AUTOMATION FIRST
Accelerate time to market with **in-built functionality** to help operationalize models at scale

Microsoft Azure

» Integrated **Automated Pipelines**

» Pre-built **Reusable Templates** for BYOM

» **In-built Test Cases** for Quality Assurance

» Decipher Models with **Model Explanations**

» Simplified **Drift & Model Monitoring**

Key Building Blocks - KenAI

kenAI Automate

| Automated pipelines |
| Reusable Components |
| Infra as a Code |
| Model Deployment |

kenAI Assure

| Data Quality |
| Train – Test Quality |
| Model QA |
| Sustainability Test |

kenAI Govern

| What-If Analysis |
| Model Explanations |
| Responsible AI |
| Auditability |

kenAI Monitor

| Data Drift |
| Model Drift |
| Service Health |
| Continuous Monitoring |

KenAI – Technical Architecture

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React UI & API ↔ **Azure CDN**

Web and Application Tier

Azure NSG

Azure Web App

Azure Webserver

User Management and Authentication

Azure Key Vault ↔ Azure Active Directory

Azure SQL

Azure Blob

Azure ML | Repos | Pipelines | Monitor | ACI

deepchecks. | EVIDENTLY AI | mlflow | Flask | Jinja2 | matplotlib | NumPy | plotly | Shap | pandas | TensorFlow | JUUT
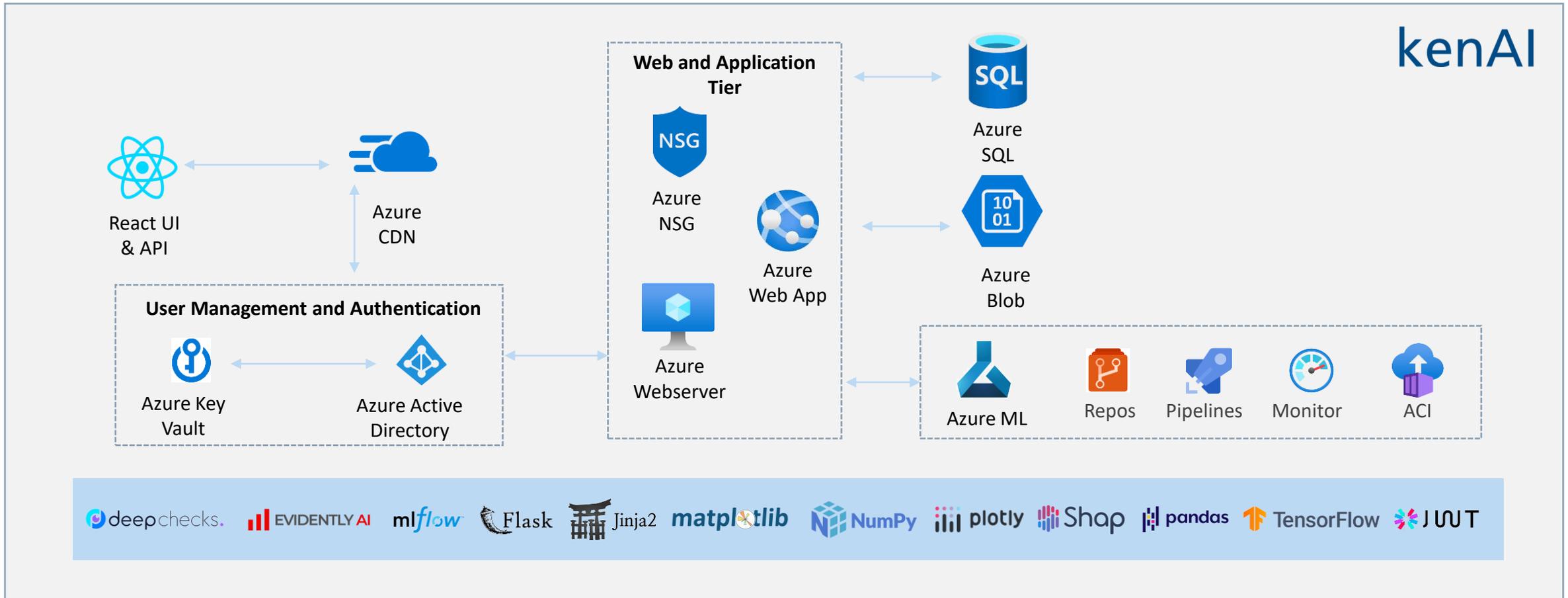
kenAI – Success Stories

ModelOps + Ethical AI

Leading US Based Global Asset Management Firm

~40% reduction

In **Time to Insights** across the entire ML process along with **end-to-end Ethical AI** fabric & regulatory compliance

Model Monitoring + QA

Leading US Based FMCG Major

~50% reduction

in an effort to test and perform QA on AI/ML models

~100% Visibility

For teams with access to **Monitor** all the AI/ML models across the globe

Integrated MLOps

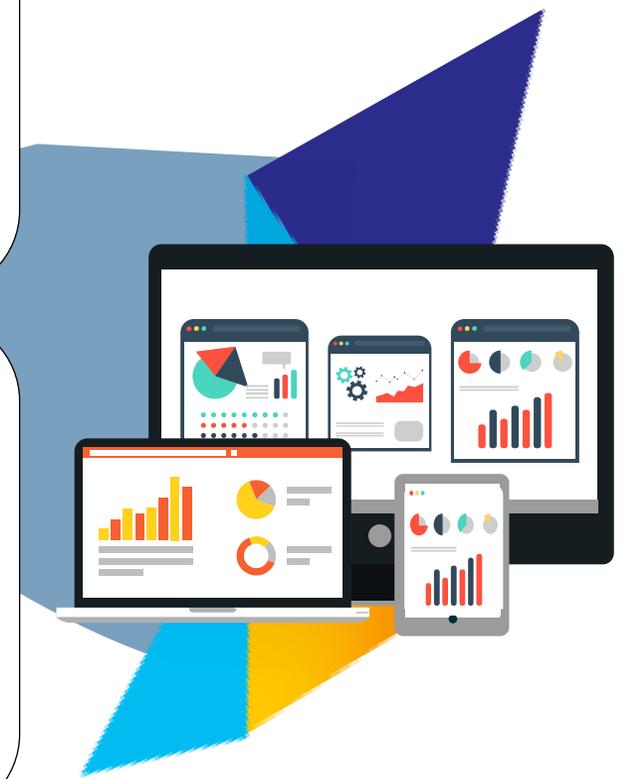Leading US Based Utility Co.

2x Faster

model deployment with automated pipelines having end-to-end security and governance
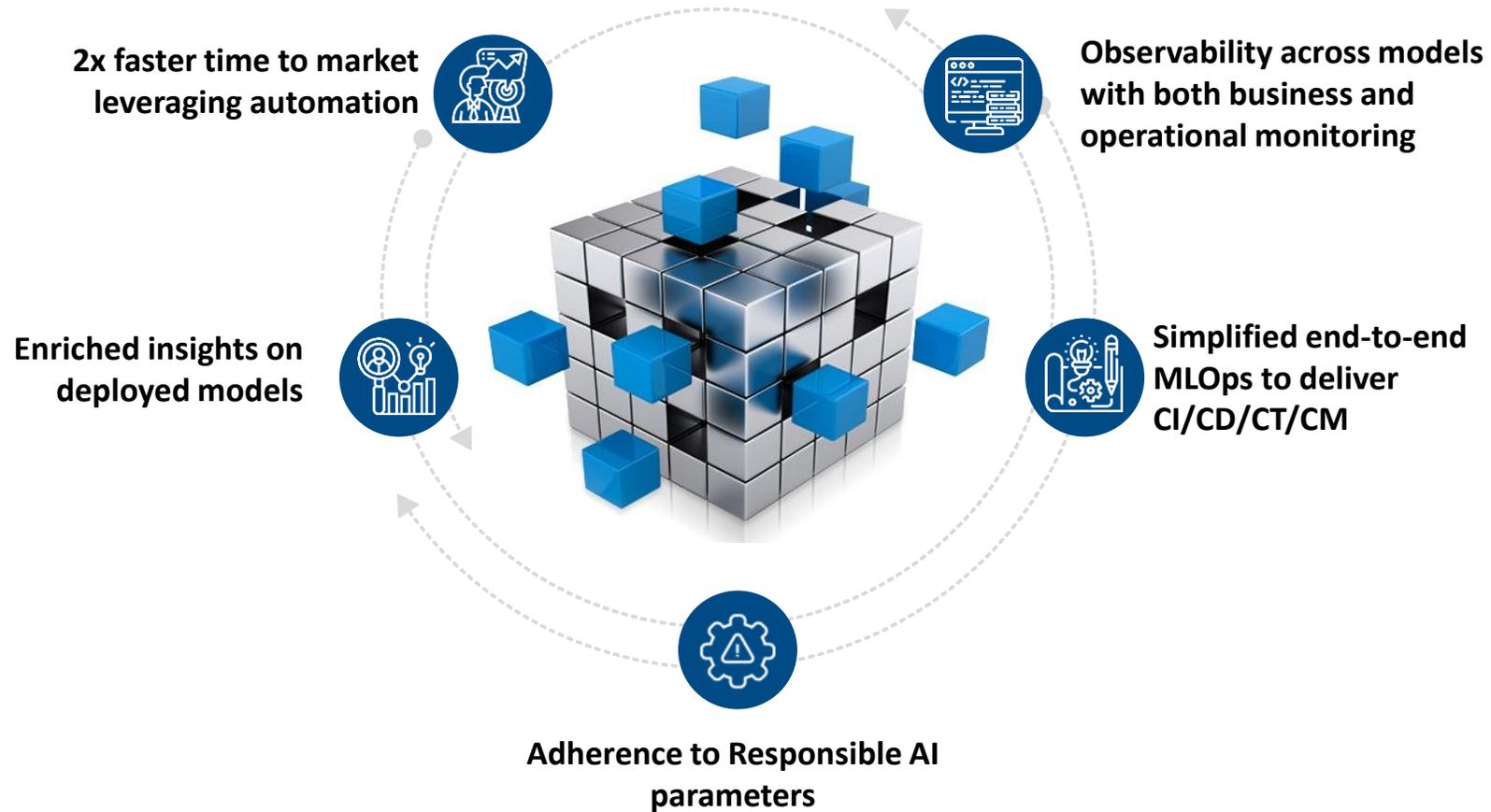
ModelOps at Scale

Leading Canada-Based Humanitarian Aid Organization
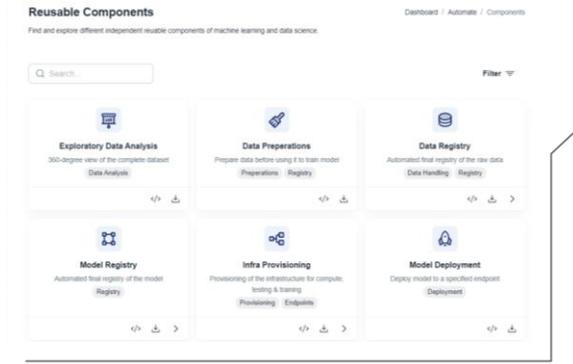
~40% reduction

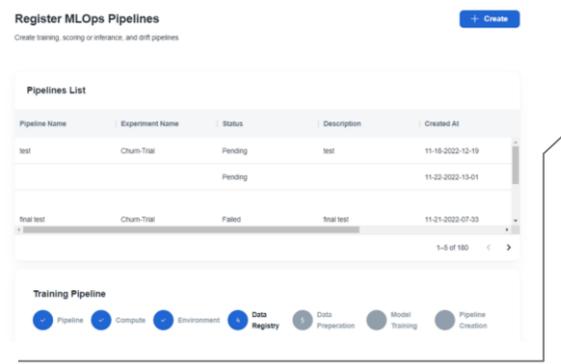in **Manual Effort** for building training & scoring pipelines and automating the ML lifecycle process

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Advantages @ KenAI

2x faster time to market leveraging automation

Observability across models with both business and operational monitoring

Enriched insights on deployed models

Simplified end-to-end MLOps to deliver CI/CD/CT/CM

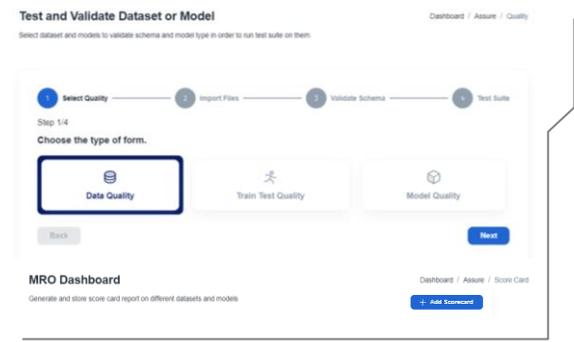**Adherence to Responsible AI parameters**

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KenAI in Action

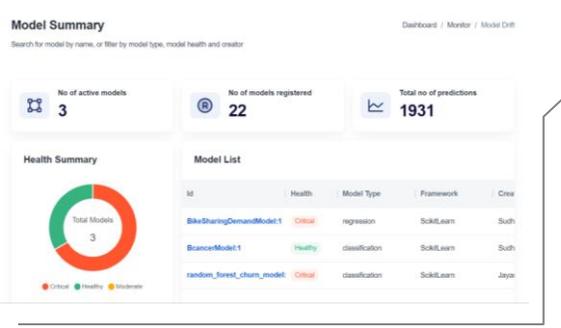Pre-built templates to help operationalize models

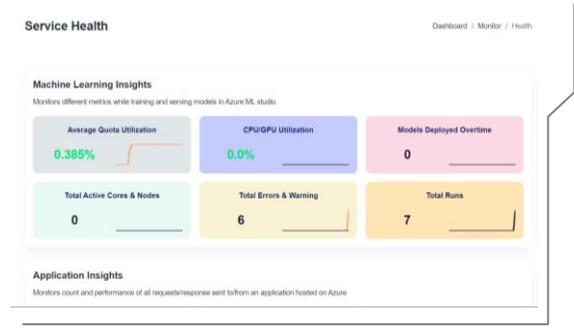Automated MLOps pipeline to operationalize models

In-Built test cases to bring predictability & QA in models

Model explainability to decipher the black box models

Model monitoring to check drift and perform ground truth

Service health parameters of the models which are deployed

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Future, Faster. Together