

HealthEM.Al is a mission-driven data platform company dedicated to improving care delivery. To achieve this, we simplify patient data from all points of care and apply Al/ML-based predictive analytics to empower healthcare organizations with actionable insights leaders and clinicians. We ensure clinicians and healthcare organizations take the right actions to enhance patient health and optimize cost.

HealthEM.AI Offerings

SDoH Risk Model



Derives insights on health and wellbeing based on social determinants of health (conditions in which a person is born, grows, lives and works).

Hospital Admission Risk Model

Identifies which members in a population are most likely to be admitted to the hospital in the next 12 months.



Predicted Cost Model



Predicts the development of a patient's healthcare costs over the next year and analyzes the factors that influence this prediction.

Readmission Risk Model



Identifies which patients are most likely to be readmitted following a stay in the hospital.



Member Retention Model



Identifies key drivers for retaining the existing population and targets promotions to sustain market share.



ER Events Risk Score

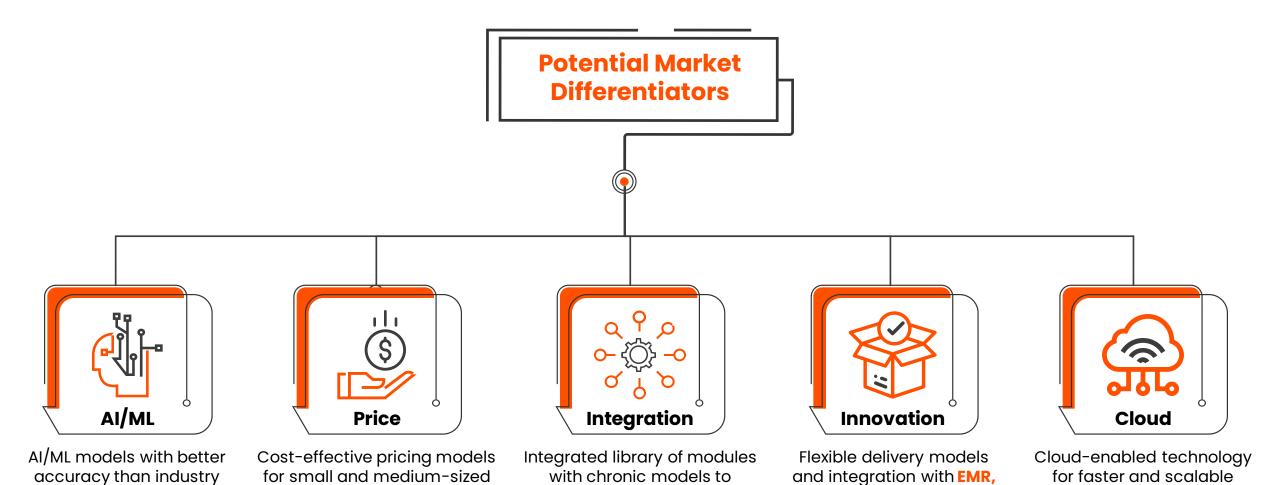


Helps in the early detection of patients who are likely to have an emergency room visit or hospitalization in the next 12 months.



Potential Market Differentiators

health plans.





deployment of solutions.

support informed clinical

decisions.

HL7, APIs and custom

applications.

standards (2-4x higher).

Focus Areas



Medicare Advantage Plans



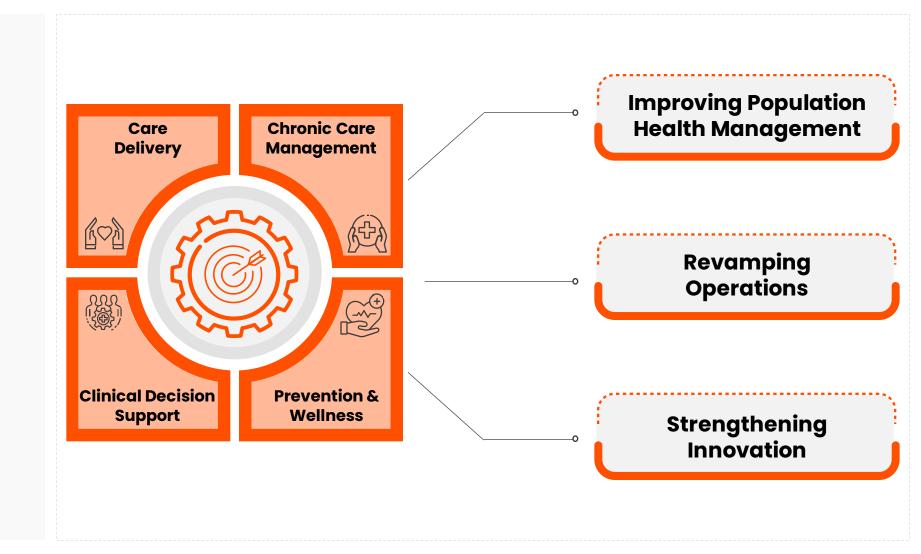
Provider Groups



Commercial Contracts



Specialty Services



Model Framework



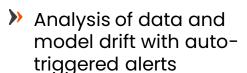








accuracy via a selection of metrics -RMSE, MAPE, Precision, Fl Score, etc.)



Explainable AI visualizes predictions for better understanding

Visual graphs provide end-to-end visibility and traceability for model execution



Discover changes in data distribution that can potentially lead to model degradation

- Builds trust in the model with its users
- Expedites root cause identification of production issues

Helps in validating the correctness of model predictions

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- Explains model output down to a single prediction
- Reduces dependency on DS/DE teams for production support

Azure Platform



Data Sources	Data Ingestion	Data Engineering	Model Development	Model Deployment	Model Monitoring
ERP/CRM	Data Capture	Data Transformation	Model Development/ Experiments	Model Registry	Provenance Graph
Systems	Data Integration	Data Catalogue	Hyper Parameter Tuning	Model Testing	Model & Data Drift
Data	Orchestration	Data Lineage	Streamline Resource Provisioning	Containerization and Packaging	Model Explainability
External Data	Incident Management	Data Validation	Model Artifacts	Automated Model Deployment	Alerts & Notifications
Files	Data Quality Management				Reporting

Azure Offering

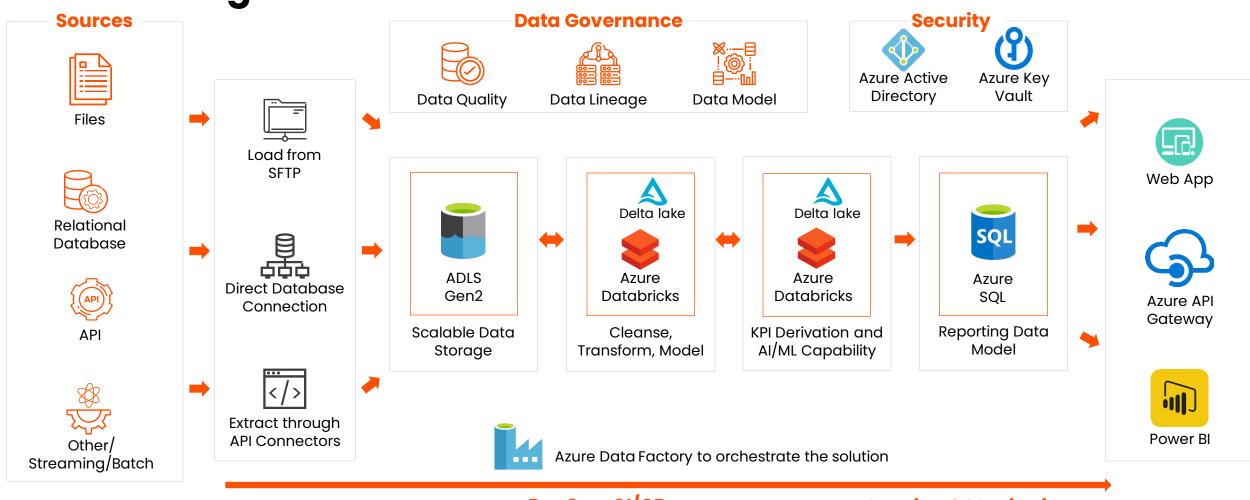
HealthEM.AI Accelerators



Data & Insights Healthcare Platform: Capability Architecture

Solution Delivery Platform Foundation Front End Provisioning Security/Compliance **IT Governance** Front End >> Front Fnd >> Identity and Access: >> Subscription API Analytical >> Front End >>> Report Interaction (API, Developme Interaction Management Management Management Development (User Interface) etc.) nt >> Encryption (Data Software Code >> Job Scheduling Logic and AI/ML Provisioning at Rest and Repository Motion) Management >> Logic >> AI/ML Feature >> Logic Assembly >> AI/ML Model Pipeline Development and Scoring Development >> Alert and Customer System Isolation Monitoring **Notification Data Management** >> Legal and Automated >> Issue Tracking **Data Provisionina** and Identification Regulatory Code Deployment (CICD) Compliance Data Model Data Storage Data Data Catalog Quality and API Interaction Data Lineage >> User Support People Collaboration **Data Source Gathering** >> Al Model Drift Continuous Data Data Source >> Data Source Data Source Data Source (File (Relational DB) (API based) (Other/Stream/ Preservation Tracking Improvement and based) and Archive **SLA Tracking** Batch)

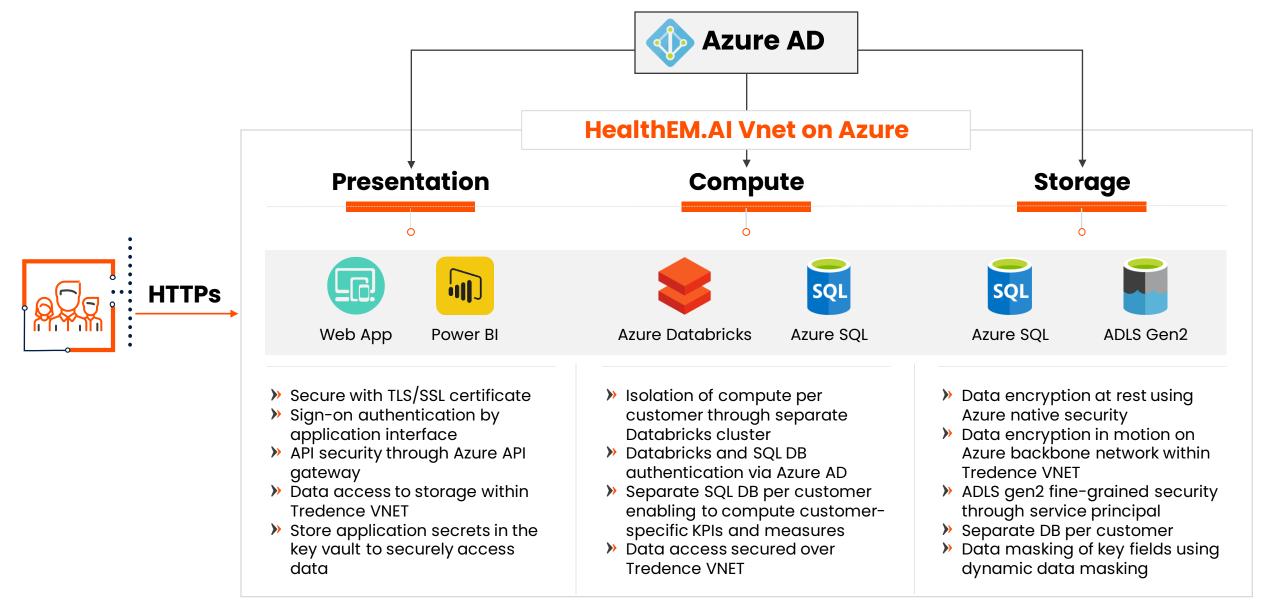
Data & Insights Healthcare Platform: Technical Architecture



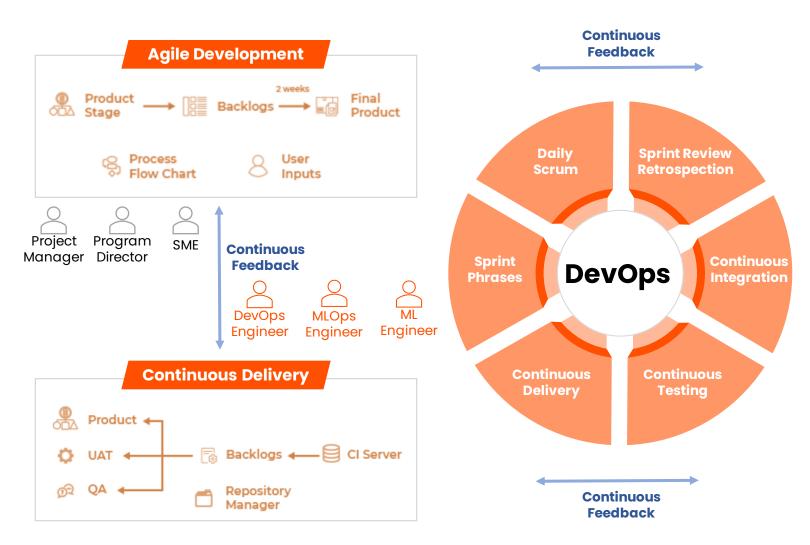
Azure Azure DevOps Azure Azure App Repos Pipelines VSTS Service

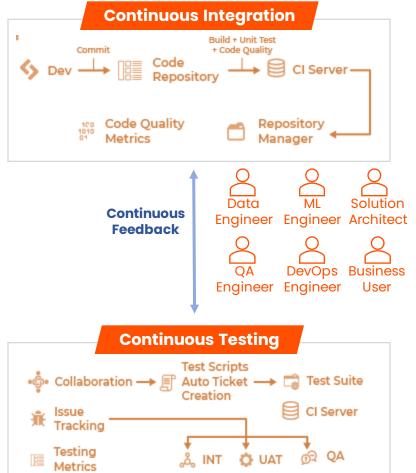


Data & Insights Healthcare Platform: Security Solution



HealthEM.AI Best Practices to Streamline

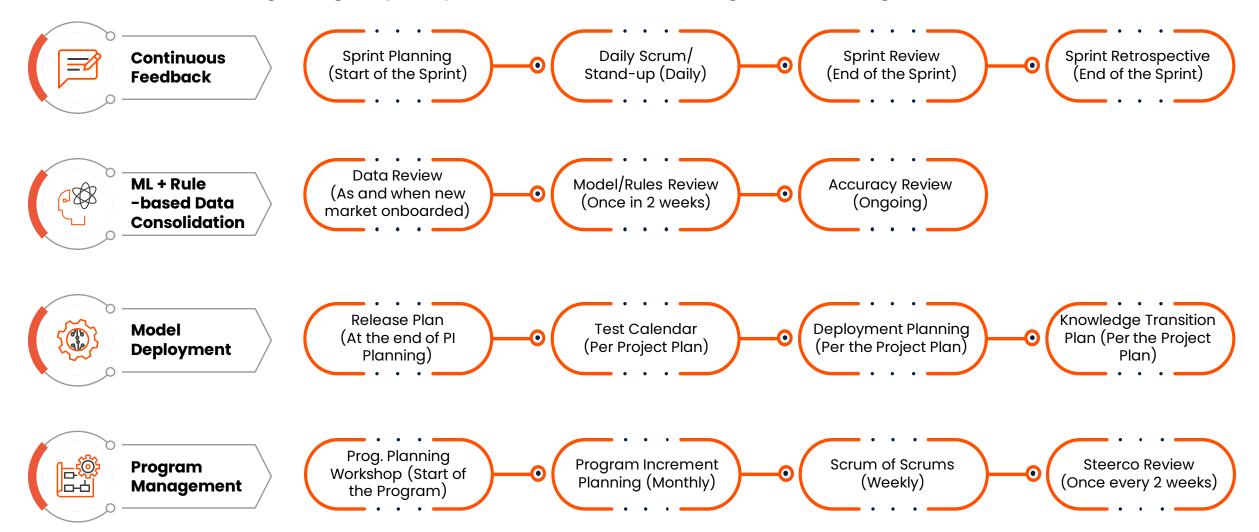






Proposed Cadence Across Workstreams for Optimal Velocity

A complex program requires coordination across several teams and the appropriate governance controls for delivering a high-quality solution and sustaining it in the longer term.



We Follow a Robust Process to Ensure Smooth Process Transition and Maintenance.

The maintenance cost is determined by the projected level of engagement from the solution support team.



Pre-transition



Transition



Governance



Cost Improvement & Optimization

Rigorous Planning





Continuous Transformation



- Discovery phase (experts guiding the scope definition process)
- Opportunities, risks, stakeholders, process gaps, data gaps, use case definition
- Migration planning

- Crawl-walk-run process to ensure ample time for process understanding
- Prioritization framework to ensure critical processes take precedence
- Detailed SLA framework to ensure streamlined processes
- Ticketing system for tracking of issues
- Infrastructure management backup, recovery, uptime
- Health monitoring

- Automation to increase efficiency
- > Improved productivity
- Process transformation & continuous improvement
- Cost optimization & spend analysis



- Detailed scope & specifications document
- Automation assessment
- >> Business continuity plan
- >> Risk assessment matrix
- Stakeholder map for communication

- Detailed process documentation
- Ticketing tool
- Self-service portal
- SLA document for steady state
- Escalation matrix for critical situations
- Status updates on the progress

- >> Uptime & status reports
- RCA reports in case of issues
- Executive dashboards
- >> User access documentation & logs
- Automation scripts
- Reusable execution scripts
- Performance logs



- Avoid surprises during execution
- Involve all relevant people
- Confidence in process takeover
- Fully set up for the steady state
- All process scenarios defined
- Reliability in maintenance & monitoring
- 24/7 support
- End-user management

- Improvement in failure prediction
- Effort reduction
- User experience improvement



Thank You



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