



## Digital Transformation

Translucent is a data-driven digital transformation service provider & ML technology partner.

Focused on building customer solutions & increasing business value through software innovation.

Accelerate adoption of digital technologies by leveraging expertise in Kubernetes and application development, coupled our AI data platform, **TEKStack AI**.





# TEKStack Health

Enabling Data | Transforming Health Care





## Our Foundation:



### TEKStack AI:

- ✓ Cloud-Native
- ✓ Security- & Privacy-Centric
- ✓ Effortless Scaling with Increasing Data Volume/Variety.
- ✓ Expedite Interaction with Data

**TEKStack AI** is our AI and data platform for creating comprehensive data solutions for hospitals and related institutions.

The platform facilitates the entire data journey, from: Import, analysis and machine learning, to reporting and sharing of insights.

**Successful application in many verticals: Healthcare, Automotive, Fintech.**

### Recent Clients:

The Hospital for Sick Children

SickKids Research Institute

Southlake Regional Health Centre

GoTo Loans

Canadian Black Book



# Our Offering: **emrchiver**

*A platform for migrating & enabling data from healthcare legacy systems.*

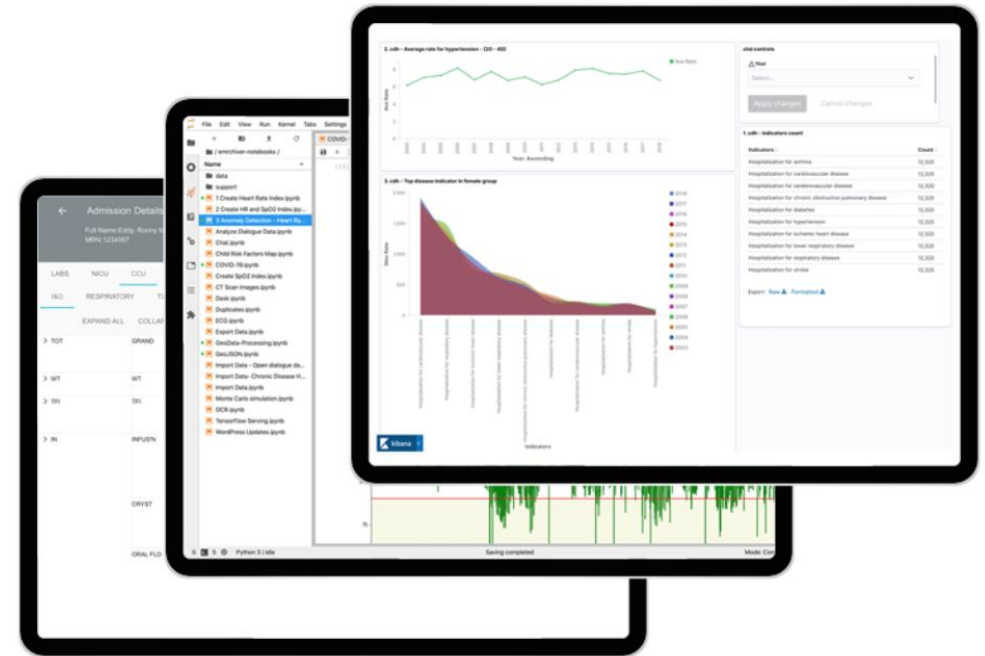


# Solution: **emrchiver**

*A platform for migrating & enabling data from healthcare legacy systems.*

## Why emrchiver?

- ✓ emrchiver gives retrospective clinical data a permanent home, either on-premise or in the cloud.
- ✓ Dashboards make patient data both readily accessible and immediately responsive to users (clinicians, IT administrators, or researchers) navigating the platform.
- ✓ Researchers gain access to TEKStack AI, allowing faster creation of new insights, as well as receiving an enterprise-ready ML solution for testing and deploying machine learning models from patient data.





# The Problems Surrounding Legacy Systems:

## Legacy system migration:

EMR implementation budgets do not account for a comprehensive data migration from legacy systems.

Migrating legacy data risks preservation of original data values.

Validation of migrated data is inherently costly.

## Data locked inside outdated systems:

Hospitals do not have the means (i.e. resources or technology) to access legacy data effectively.

Long-term value of legacy data is not considered when planning a new EMR implementation. Ideal solutions are de-prioritized.





## Resultant Pains & Limitations with Legacy Systems:

- ❖ Legacy systems are not decommissioned.
- ❖ Unnecessary licensing and maintenance costs persist with legacy systems.
- ❖ Hospital researchers need to rely on individual, local solutions for accessing and working with patient data.
- ❖ **Siloed patient data does not provide value for institutions.\***

*\*Legacy systems contain vast amounts of data sought after by new AI teams being formed in hospitals and research institutes.*



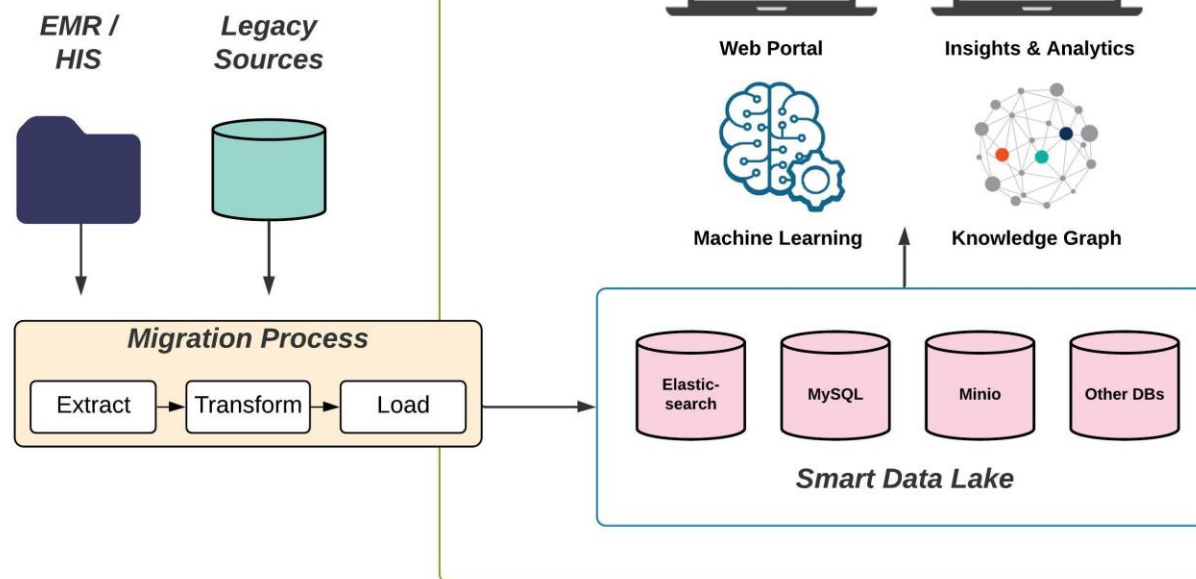
# Our Solution: **emrchiver**

## Data Migration Simplified.

Automated migration process extracts data from an EMR or legacy system & transforms it into a usable form for analytics research or machine learning purposes.

Data is fully indexed, and readily accessible.

Full-text searching and powerful query capabilities allow users to generate insights and meaningful reports.







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Admission Details

CCCU 2010-09-20 15:40 - 2010-09-21 10:29

Now Viewing

Full Name:Eddy, Ronny Messi  
MRN:1234567

Date of Birth:2000-01-01  
Gender:Male

Registration Number:I0404834  
Unit:CCCU

From 2010-09-20

To 2010-09-21

LABS

NICU

CCU

CCU MEDS

I&O

RESPIRATORY

TX/CARE

NEURO

WTS & MEAS

ECLS

1

EXPAND ALL

COLLAPSE ALL

09-20 10:21 11:00 12:54 16:00 17:00 18:00 19:00 20:00

> TOT

GRAND

Total

Intake

Output

Net

Dly Run'g Tot

18

32

52

52

52

65

18

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37

52

-47

14

-2

15

0

-47

-33

-35

-20

-20

> WT

WT

Daily Weight

kgs

lbs/oz

null / null

17.059999

37 / 10

> TFI

TFI

TFI

Ordered TFI - ml/kg/day

Ordered TFI - ml/hr

Actual TFI - ml/kg/hr

Actual TFI - ml/kg/day

1.1

1.9

3.0

3.0

3.0

25.3

45.0

73.2

73.2

73.2

> IN

INFUS'N

D5W 0.2 NaCl - Rate: 2.00 ml/hr  
Total Volume: 50 ml  
Solution - D5W 0.2 NaCl - Volume: 50ml  
Additive - HEPARIN (CCU Central) - Amount: 100U

Dly Run'g Tot

2

2

2

2

2

2

4

6

8

10

NS - Rate: 2.00 ml/hr  
Total Volume: 50 ml  
Solution - NS - Volume: 50ml  
Additive - HEPARIN (Art) - Amount: 100U

Dly Run'g Tot

2

2

2

2

2

2

4

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8

10

CRYST

D5W 0.9 NaCl - Rate: 28 ml/hr  
Total Volume: 250 ml  
Solution - D5 NS - Volume: ml

Dly Run'g Tot

14

28

42

Migrate your data to a new home.

Modernized & easy-to-use dashboards allow for efficient visualization of patient data.



# Our Solution: **emrchiver**

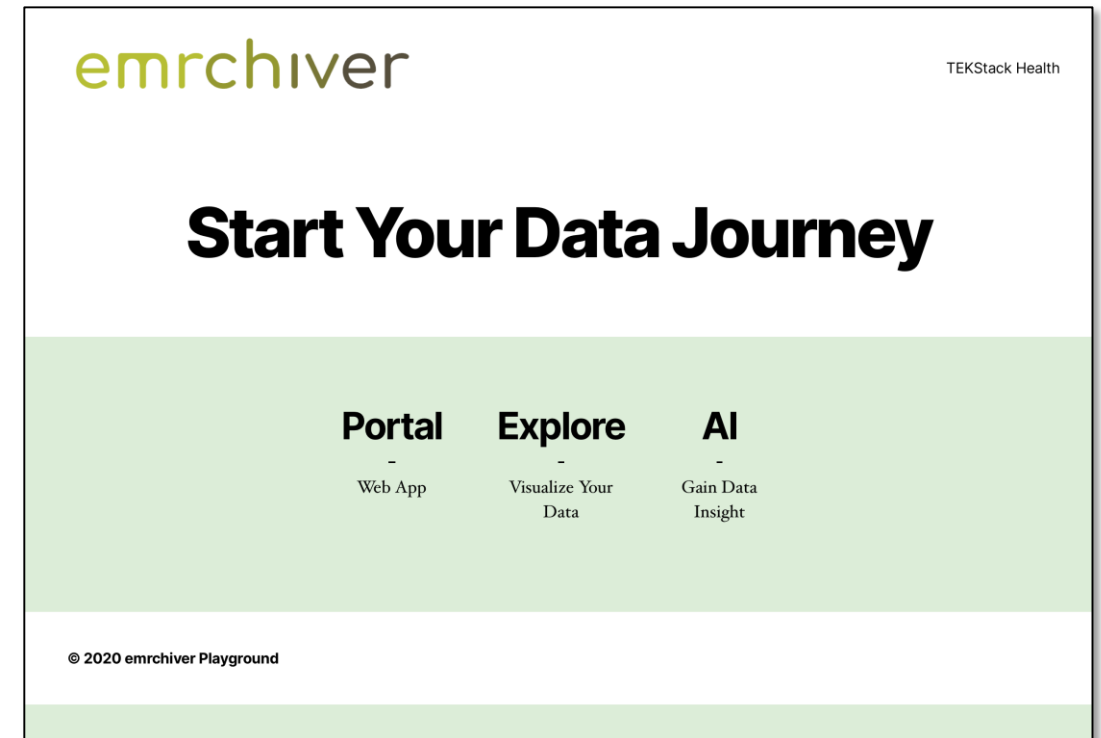
## A Powerful Machine Learning Platform:

Machine learning engineers spend an inordinate amount of time building tools to understand the vast amounts of data they have to work with.

emrchiver includes a suite of tools that allow researchers to focus on working with the data (and not the infrastructure).

An enterprise-level machine learning pipeline is directly connected to hospital datasets, leading to expedited clinical data solutions.

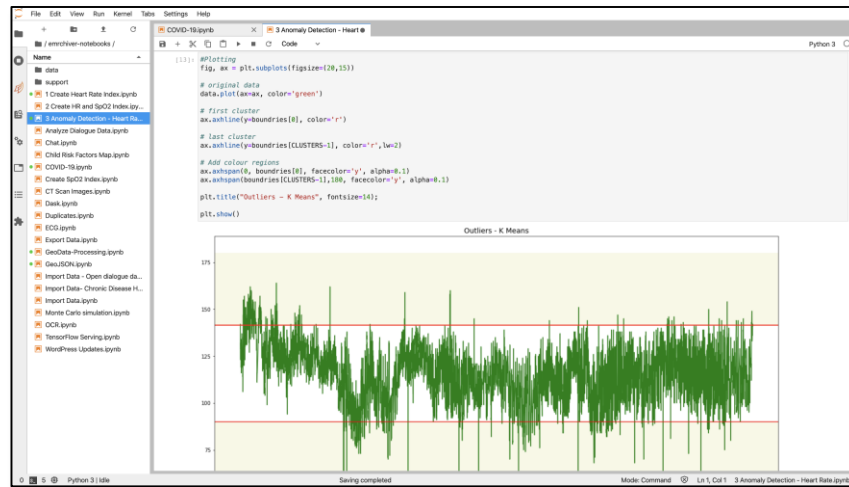
**Access to the platform comes standard once a legacy system is migrated into emrchiver.**





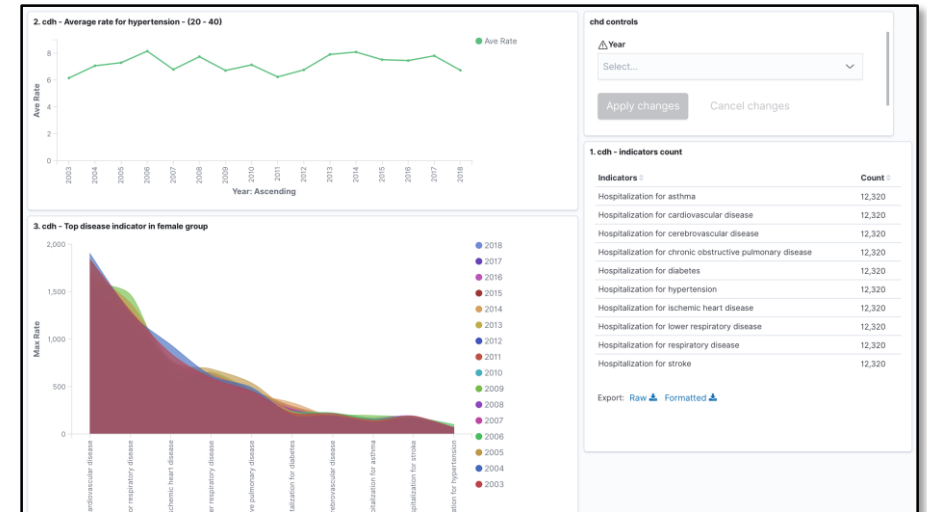
# Our Solution: **emrchiver**

*Machine Learning Powering Business Intelligence:*



1. Machine learning notebooks allow researchers access to TEKStack Platform's tools and datasets.

Create models, patient insights, or visualizations to be added to reports, and quickly deploy resources to an end-user asset (i.e. web portal or interactive dashboard.)



2. Analytics dashboards give researchers an ability to create business intelligence (BI) or ML-powered assets & share their insights.



3. Web portals allow clinicians access to patient record.



# Our Solution: Knowledge Graph

*Context-specific enterprise search with natural language.*

Emrchiver's knowledge graph is a hospital enterprise search service allowing for greater accuracy when finding information across your institutional databases.

It is a machine learning powered and easy-to-use search engine that is made easier by allowing for natural language questions in addition to traditional keyword search.

By imparting machine learning techniques to the datasets ingested into our smart data lake, we create an ability for faster and improved database search of the patient record.

***The Result:*** *More informed insights generated and faster decision-making for those interested in exploring the data.*





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DevOps



Microservices



Machine  
Learning



Contact information

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