Future of Healthcare by Datavant

2022

I-CARE-U BY TWILIGHT CLOUD CODERZ



KAVYA

Major challenges Healthcare industry



- Opioid Crisis Over dosage of drugs increase in death rate
- Irrelevant Information and Integrated Health Services
- No Advanced Health Technology
- Cybersecurity–Data breach
- Rising Healthcare Costs
- Payment Processing and Invoicing –Insurance claim
- Regulatory Changes
- External Market Disruption

Our Solution Outcome



Advanced Technology

Integrating to advanced technology for data analytics and also to improve customer patient care through best CRM software.

Customer Insights

Analysis patient data and taking action before the crisis. shift from a traditional clinical interview with a focus on acute illness to involving patients and better staff communication

Cybersecurity

Data security in place firewall and authorization should improve which takes care of patient data in a highly secured way

Opioid Crisis

Misuse of prescription drugs is gradually gaining recognition in many country. It is important that healthcare enterprises and pharmaceutical companies come together to propagate tighter laws

AI-BOT

Al-bot which solves major problems and solving queries which is highly available 24/7 also acts as a patient care by analysis the patient health data and suggest health precautions

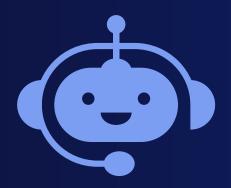
Insurance Claim

Healthcare companies can break the whole payment into small chunks to help patients/payers better plan their finances and mode of payment through Automation.

I-CARE-UBY Twilight Cloud Coderz



In our project we are providing solution for three problems which faced by major healthcare industry



Schedule Appointment

I-CARE-YOU Ai Bot schedule medical appointment as per doctor availability and to customer need without reaching service desk and confirmation mail of the appointment sent to mail address



Automate Insurance Claim

Insurance policy number in the data record which is stored in Cosmodb and post validation shares the document for claiming insurance which includes all mandatory like bill invoice upload option and share the document to admin for validation post patient document submission everything carried through automation



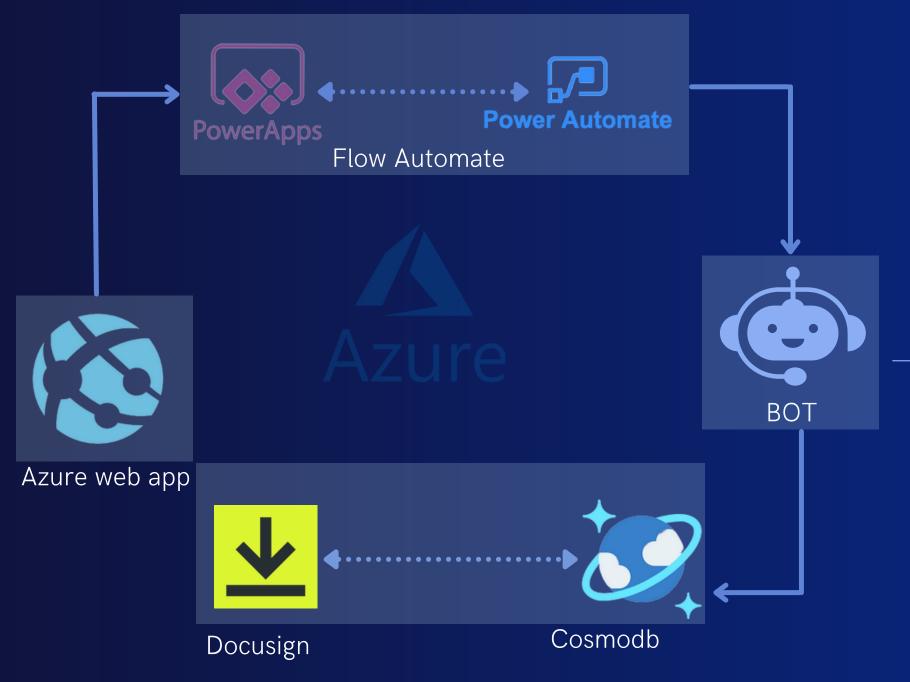
Medicare Data Analytics

Big data analytics - Data of the patient unstructured record and insurance claim data analyzed through azure data factory and segregated into a structured data later stored into Azure blob container at the end visualized for better understanding which solves repeated calculation works.

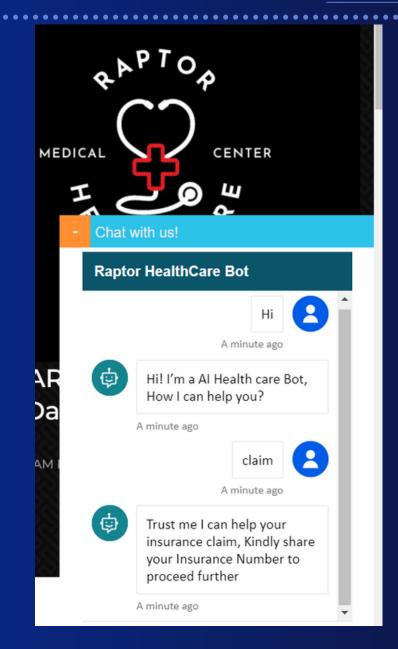
Albot Architecture Diagram

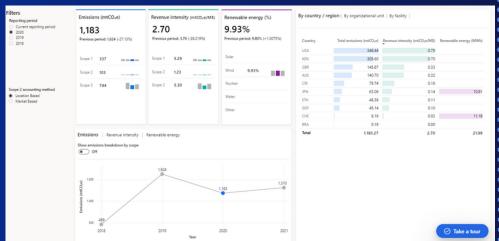






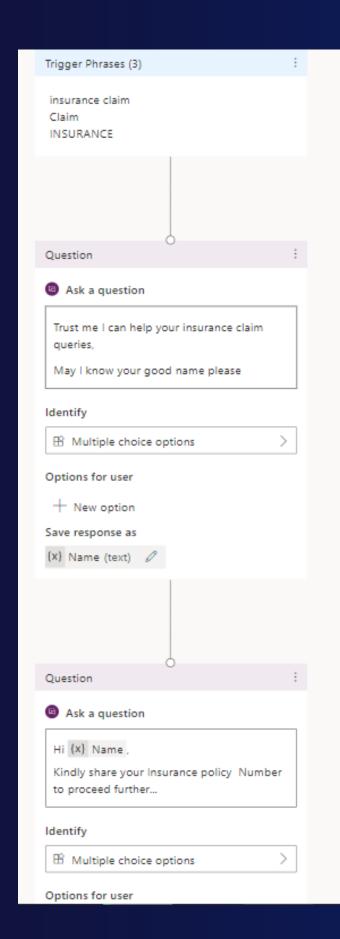


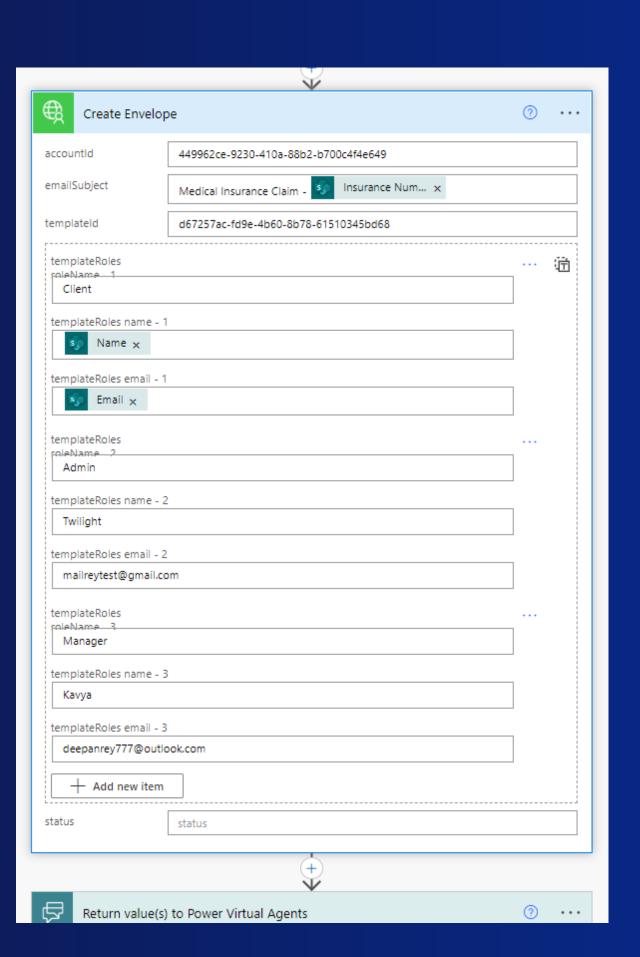




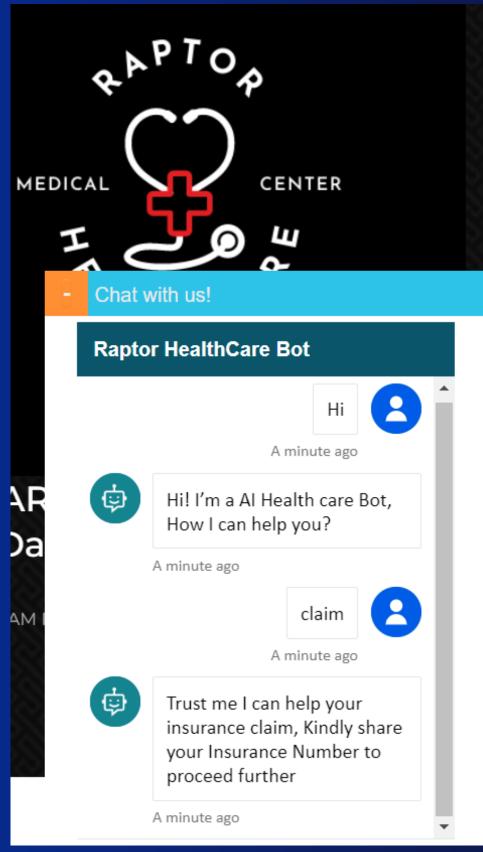
MICROSOFT POWERAPPS







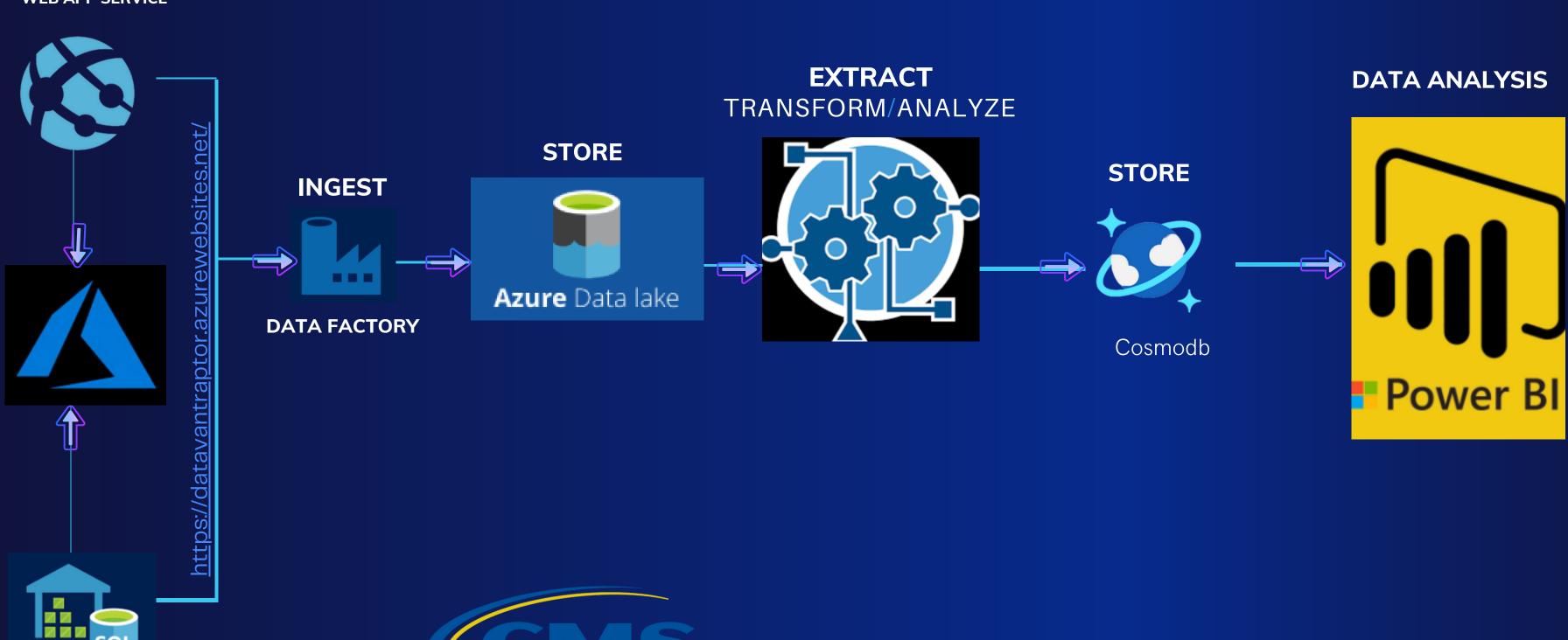




Data visualize Architecture Diagram



WEB APP SERVICE



MEDICARE DATA

ADF Extract/Load/Transfer



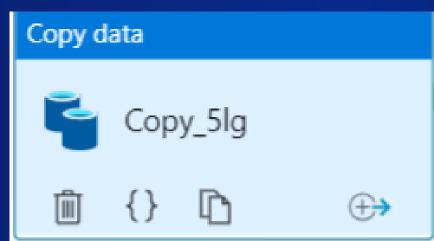
BLOB
SOURCE DATASET - SOURCEDATASET_5LG

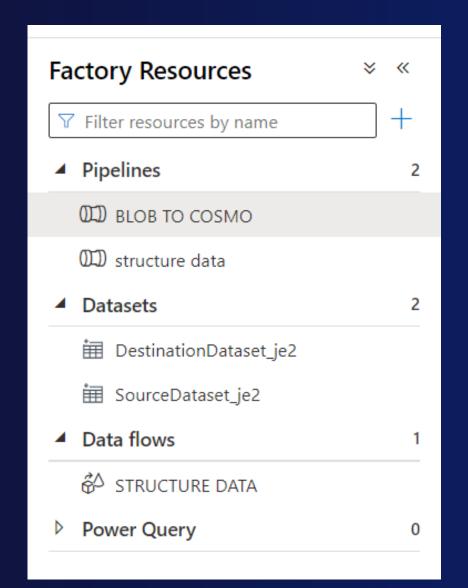
COSMODB

DESTINATION DATASET - DESTINATION_5LG

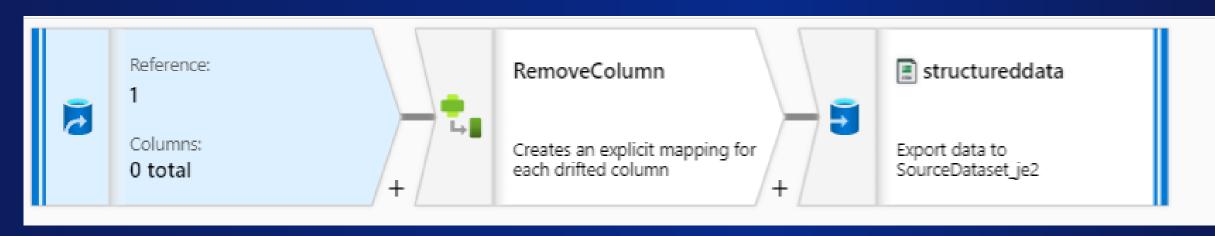








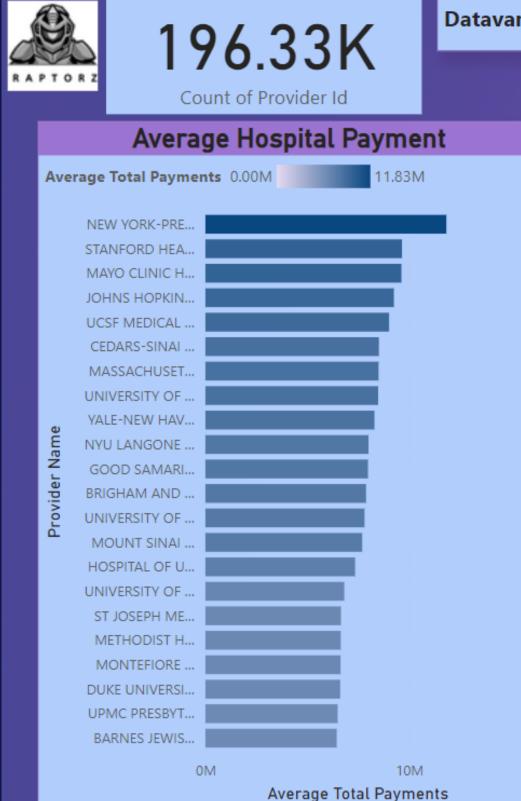
MAP DRIF REMOVE UNWANTED COLUMN



Data visualize



https://POWERBI.COM/DATAVANT/RAPTOR-TCC



Datavant Hackathon - Medicare Hospital Charge by team Raptor-TCC

12.0...

Average Covered Charges

Microsoft Bing

2.32bn

Average Medicare Pavm...

Total Payment by Medicare 2.32bn 2.74bn 5.49bn

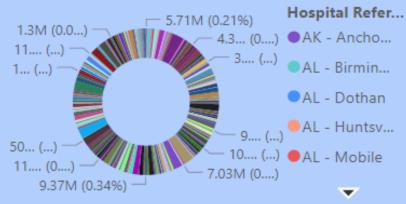


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2.74bn

Average Total Payments

AVG PAYMENT HOSPITAL



STATEWISE PAYMENT

| AK | СТ | IA | LA | МО | NH | |
|----|----|----|----|----|----|--|
| AL | DC | ID | МА | MS | NJ | |
| AR | DE | IL | MD | MT | NM | |
| AZ | FL | IN | ME | NC | NV | |
| CA | GA | KS | МІ | ND | NY | |
| со | ні | КҮ | MN | NE | ОН | |

Demonstration



Git hub link

https://github.com/TWILIGHTCLOUDCODERZ/Datavant.git

Video Link

https://youtu.be/o8mxVLT-JUO

WebApp

https://datavantraptor.azurewebsites.net/

PowerBl

https://POWERBI.COM/DATAVANT/RAPTOR-TCC



Future road map

ENTIRE WORK FUNCTION CAN BE OPTIMIZED IN A SINGLE WORK FLOW WILL LEARN AND EXECUTE. ML/AI ARE FUTURE TECHNOLOGY WILL BE ADOPTED AND EXECUTE IN REAL TIME ENVIRONMENT.

Thanks for the opportunity to learn and explore new technology



KAVYA