



We'll get you there.

CPAs | CONSULTANTS | WEALTH ADVISORS

Elevating Patient Care Through AI: Practical Use Cases for Health Care Executives

April 25, 2024



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Introductions



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Learning Objectives

1. Demystifying AI

2. Practical Use Cases

3. Where to start



Polling Question – What experience do you have with AI?



SMART ASSISTANT IN MY
PHONE OR AT HOME



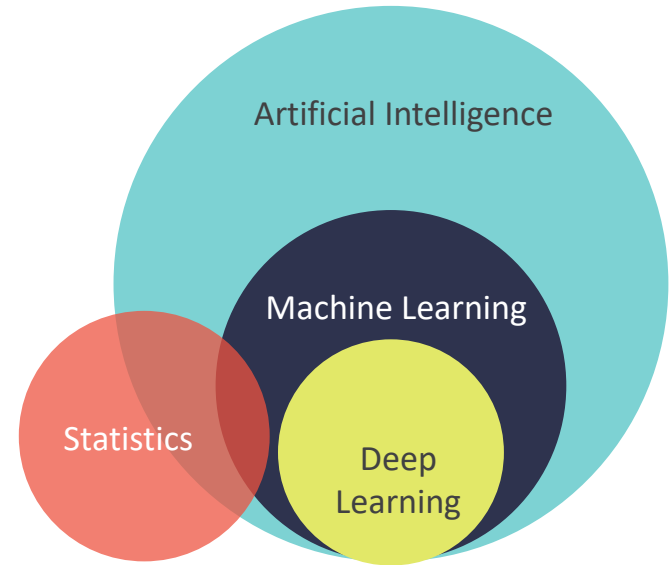
I HAVE USED WITH
CHATGPT OR SIMILAR
TOOLS



USING AI AT WORK

What is AI?

- **Traditional Computing:**
Set of explicit instructions for a specific task
- **Artificial Intelligence (AI):**
Machines learning and making decisions from data, updating with new feedback



Modern AI



Computer Vision: Image and facial recognition, autonomous vehicles.



Natural Language Processing (NLP): Sentiment analysis and conversational AI like ChatGPT.



Reinforcement Learning: Game-playing AIs like AlphaGo.



AI in Healthcare



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Computer Vision

- Autonomous Driving
- Healthcare
- Agriculture
- Retail
- Manufacturing
- Document Automation



A Powerful Example

Can anyone spot the difference between these two photos?



A Powerful Example

Can anyone spot the difference between these two photos?



Female



Male

A Powerful Example

Can anyone spot the difference between these two photos?



Female



Male

Hundreds of Eye Experts: ~50% (no better than a coin toss)

A Powerful Example

Can anyone spot the difference between these two photos?



Female



Male

Hundreds of Eye Experts: ~50% (no better than a coin toss)

AI: Near 100% accuracy





We'll get you there.

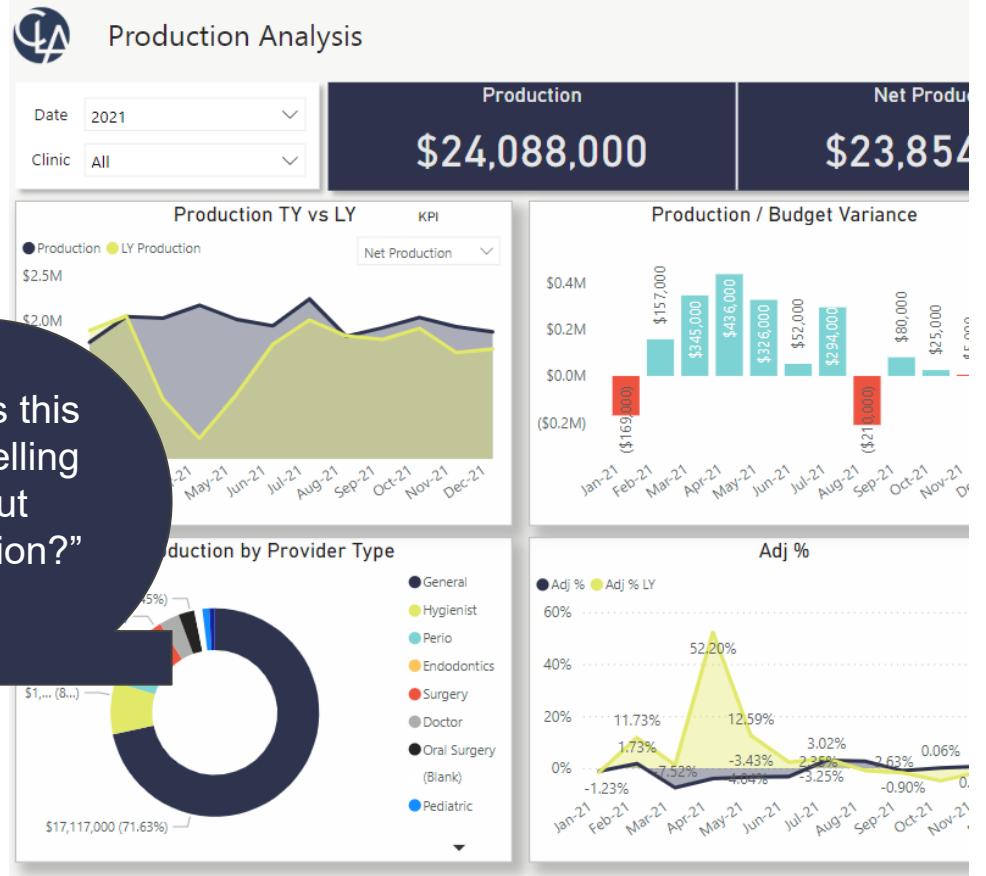
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Business Value AI

Embedded Machine Learning

Use AI as a tool to help analyze automated dashboards and reporting

“What is this report telling me about production?”



Invoice Automation

CONTOSO LTD. **INVOICE**

Contoso Headquarters
123 456th St
New York, NY, 10001

Microsoft Corp
123 Other St,
Redmond WA, 98052

BILL TO:
Microsoft Finance
123 Bill St,
Redmond WA, 98052

SHIP TO:
Microsoft Delivery
123 Ship St,
Redmond WA, 98052

SERVICE ADDRESS:
Microsoft Services
123 Service St,
Redmond WA, 98052

INVOICE: INV-100
INVOICE DATE: 11/15/2019
DUE DATE: 12/15/2019
CUSTOMER NAME: MICROSOFT CORPORATION
SERVICE PERIOD: 10/14/2019 – 11/14/2019
CUSTOMER ID: CID-12345

SALESPERSON	P.O. NUMBER	REQUISITIONER	SHIPPED VIA	F.O.B. POINT	TERMS
	PO-3333				

DATE	ITEM CODE	DESCRIPTION	QTY	UM	PRICE	TAX	AMOUNT
3/4/2021	A123	Consulting Services	2	hours	\$30.00	\$6.00	\$60.00
3/5/2021	B456	Document Fee	3		\$10.00	\$3.00	\$30.00
3/6/2021	C789	Printing Fee	10	pages	\$1.00	\$1.00	\$10.00

SUBTOTAL	\$100.00
SALES TAX	\$10.00
TOTAL	\$110.00
PREVIOUS UNPAID BALANCE	\$500.00
AMOUNT DUE	\$610.00

THANK YOU FOR YOUR BUSINESS!

REMIT TO:
Contoso Billing
123 Remit St
New York, NY, 10001

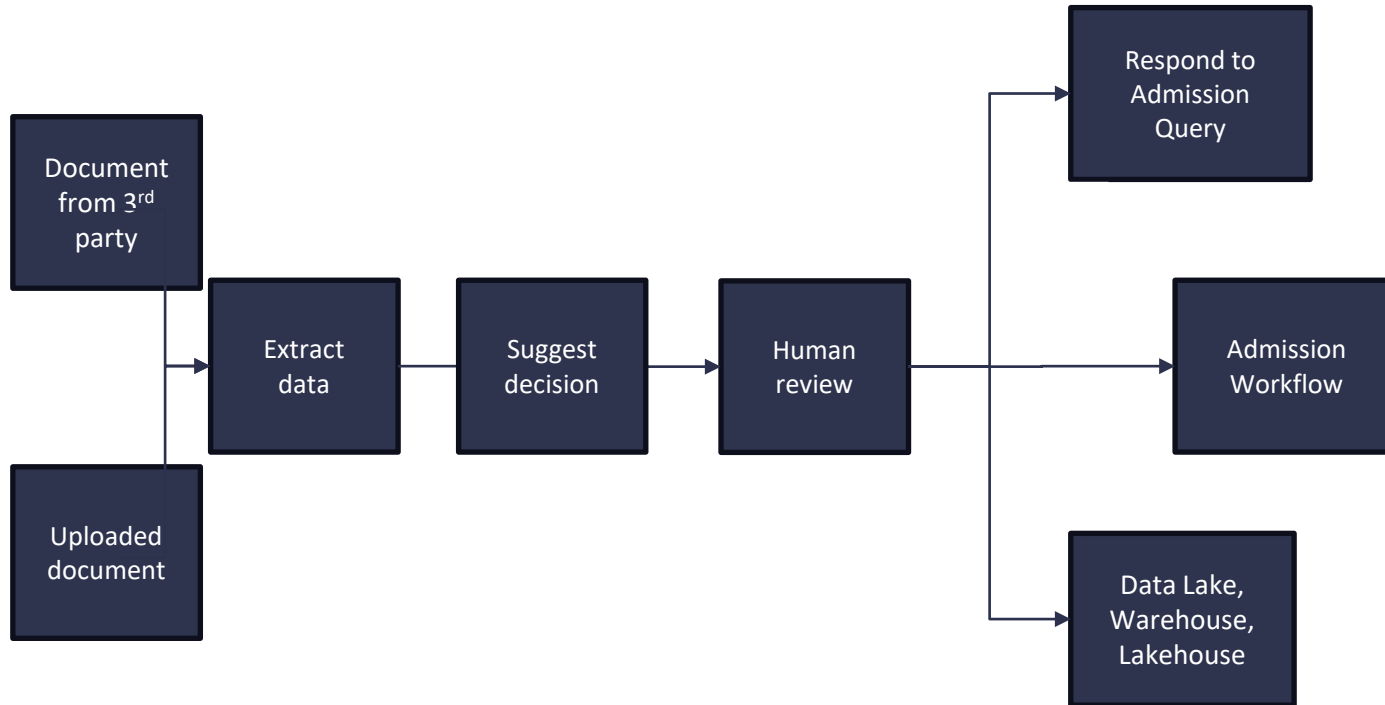
Extract key fields

Human review

Map and approve



Admission Abstraction



Prepopulated Extraction

Payer Source:
Primary Diagnosis:
BMI:
Medications:
Mental Health Status:

Accept

Reject

Colorado Department of Public Health and Environment
Communicable Disease Epidemiology Program
4300 Cherry Creek Dr S, Denver, CO 80246 Phone 303-692-2700, Fax 303-782-0338

CAMPYLOBACTERIOSIS CASE INVESTIGATION FORM
Use this form to interview confirmed and probable cases of infection with Campylobacter
Questions marked with * are required in FoodNet counties (Adams, Arapahoe, Boulder, Broomfield, Denver, Douglas, Jefferson) and must be entered into CEDRS

Patient Name: _____ CEDRS # _____ Interview date: ___/___/___
Agency Name: _____ Form Completed by: _____
Person interviewed: Case Other (circle: Parent Spouse Household member Friend)

Demographics and Contact Information
*Date of Birth: ___/___/___ Age: _____ (Circle: Yrs., Mos., Days) *Sex: F M
*Race (Circle all that apply):
American Indian/Alaska Native Asian Black Unknown
Pacific Islander/Hawaiian Native White Other
*Ethnicity (Circle one): Hispanic Non Hispanic Unknown
Language spoken: _____ Parent/legal guardian: _____
Residence: _____ Phone Numbers: _____
Address: _____ Home Phone: (____) _____
City: _____ Work Phone: (____) _____
County: _____ Pager: (____) _____
Zip Code: _____ Mobile: (____) _____

Laboratory Information *****please confirm lab information with patient, even if already in CEDRS
Culture confirmed: Yes No Species: C. jejuni C. coli C. fetus Other Not known
Lab or hospital name: _____
*Date specimen(s) collected: ___/___/___ *Specimen source: Stool Urine
Blood Other: _____

Physician Name: _____ MD Phone: (____) _____
Clinic Name: _____ City/State: _____

Clinical Description (Yes=Y, No=N, Unknown=U)
Did the patient have symptoms?: Y N U if yes, *onset date ___/___/___ Time: ____ AM / PM

Did the patient have:
Diarrhea Y N U Fever (max temp.____) Y N U Headache Y N U
Date diarrhea onset ___/___/___ Vomiting Y N U Body aches Y N U
Bloody diarrhea Y N U Abd. cramps Y N U Other: Y N U

How many days did the illness last? _____ days
Did case receive antibiotics for this illness? Y N U Antibiotic name: _____

*Outcome: Survived Died Unk (FoodNet counties: record pt outcome on 7th day after specimen collect date)
If died, date of death: ___/___/___

*Was patient hospitalized? Yes No Unk (ER visits only not considered "hospitalized")
If hospitalized: *Hospital Name: _____
*Date of Admission: ___/___/___ *Date of Discharge: ___/___/___
*Transferred to another hospital? Yes No Unk *Transfer hosp name: _____

January 2, 2008 Campylobacteriosis Case Investigation Form, Page 1



Generative AI: Internal LLM's

CLAgpt

CLA Knowledge ▾ Search Indexed Documents 🔍

Welcome to CLAgpt

What is CLAgpt?

CLAgpt is a generative AI system that is being trained from information stored within CLA's proprietary domains, datasets, and documentation. Due to the wording of your request or the format of the information accessed, this AI-generated content may be incomplete or incorrect. We recommend you include a "human in the loop" to review, evaluate, and verify the results before making any final decisions based on this AI-generated information.

Limitations of CLAgpt

CLAgpt is a Large Language Model (LLM) capable of answering general questions through the Base model or answering CLA specific questions through the Knowledge model. CLAgpt answers CLA specific questions by first retrieving documents based on the question and then attempting to answer the question based on the documents retrieved.

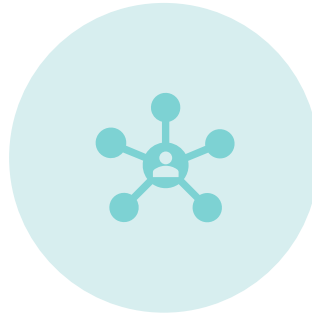
Type a new question... Submit



Polling Question – How is AI being managed in your organization?



AI USE IS A FREE FOR ALL



WE USE IT, BUT EFFORTS
ARE DECENTRALIZED



WE HAVE A ROBUST AI
STRATEGY AND ROADMAP

How to get Started



Map key business challenges to AI automation opportunities



Evaluate data sources and their ability to be connected



Use AI as a tool to accomplish strategic plan

Thank you!

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CLAcconnect.com



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