

GENERAL SESSION 1

The Future of Underwriting Is Now: Keys to Successful Deployment of Generative Al



Dave Rengachary SVP & Head of Underwriting RGA



Yuval Man Co-Founder & CEO DigitalOwl

Artificial Intelligence

Generative AI

Generative AI

Generating new text from source documents.



DigitalOwl

Entity Recognition

Entity Recognition

Extracting predefined entities from the source documents.

Entity Recognition





DigitalOwl







Date





Generative Al

"translate English to German: That is good."

"cola sentence: The course is jumping well."

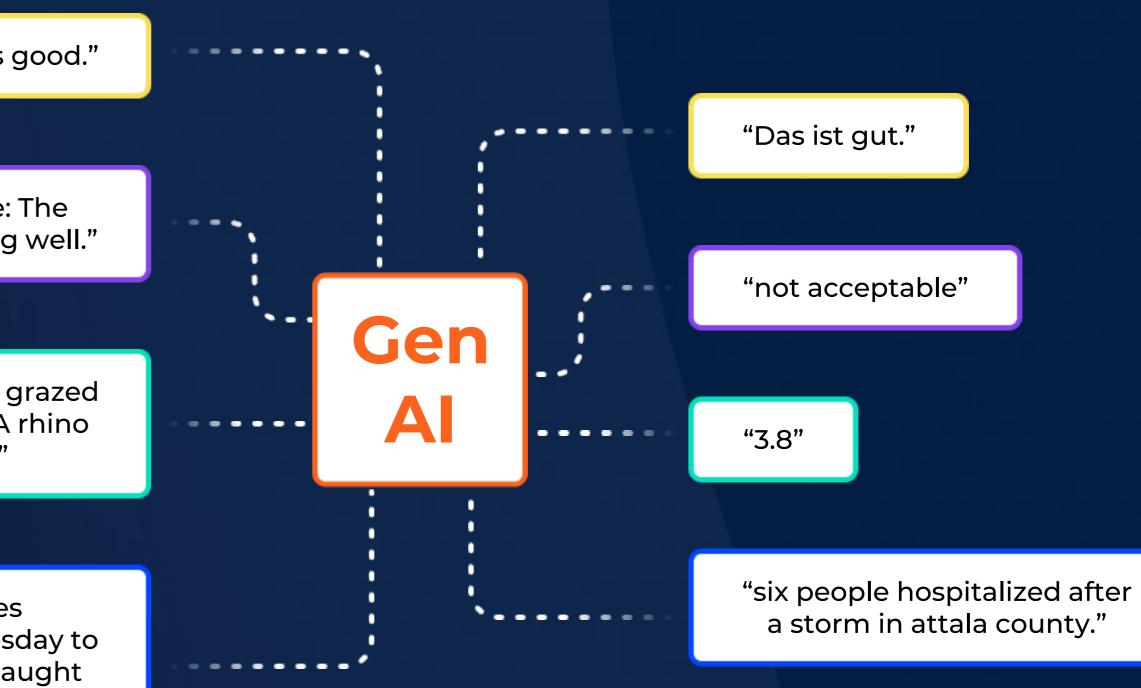
"stsb sentence1: The rhino grazed on the grass. sentence2: A rhino is grazing in a field."

"summarize: state authorities dispatched emergency crews tuesday to survey the damage after an onslaught of severe weather in Mississippi..."

Generative AI









Entity Recognition

- Sleep Apnea Syndrome 2020
- Depression 2020
- Continuous Positive Airway Pressure 2020
- Obesity 2020
- Surgical Pathology (referral) 2019
- Adenoma Of Large Intestine 2019
- Diverticulosis 2019
- Hyperlipidemia pre 2019
- Coronary Heart Disease 2017
- Hypertension pre 2017
- Gastrointestinal Hemorrhage 2017
- Alcohol Current User 2017
- Angina Pectoris 2017
- Hospitalization 2017



DigitalOwl

Generative AI

The patient is a 68-year-old male with a weight of 187 lbs and a history of depression and sleep apnea. The patient underwent colonoscopies and biopsies over the years, which revealed a sessile serrated polyp, ulcerative colitis, and diverticulosis in the colon, for which Humira was prescribed. Additionally, he suffers from hypertension, hyperlipidemia, and stable coronary heart disease. He underwent cardiac catheterization and stent placement in 2016 and was treated with a variety of medications. Recently, he experienced musculoskeletal pain and neuropathy in the elbow and foot regions.



KEY #1 Choose the right Al tool for the task









KEY #2 Don't limit your imagination about what Al can solve







KEY #3 Embrace a combination of Al technologies





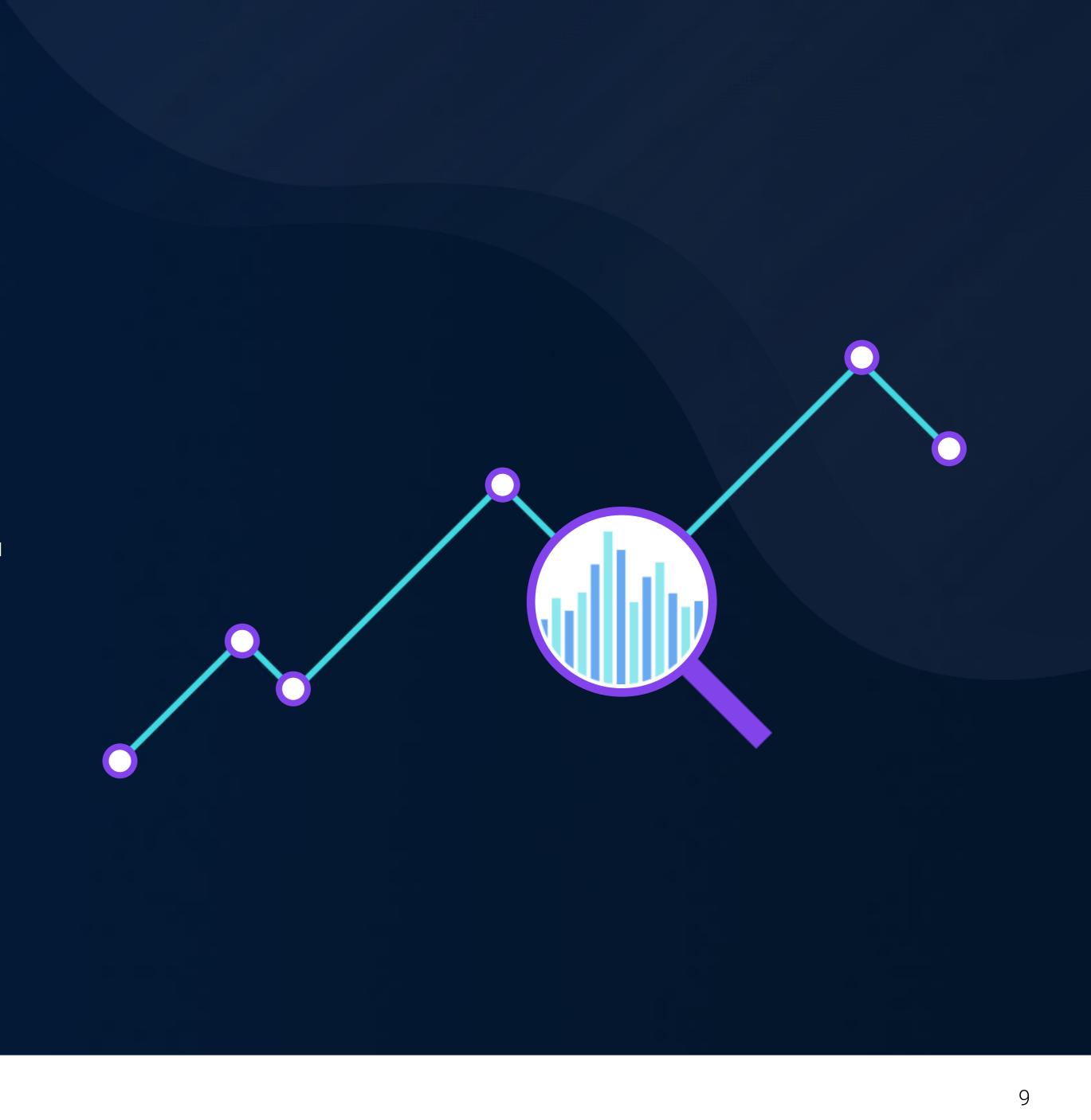




KEY #4 Move beyond a single metric for accuracy







Miss

Information in the source text that was not surfaced





Move beyond a single metric for accuracy

Noise

Information that was surfaced but was not in the source text



Which one is better?

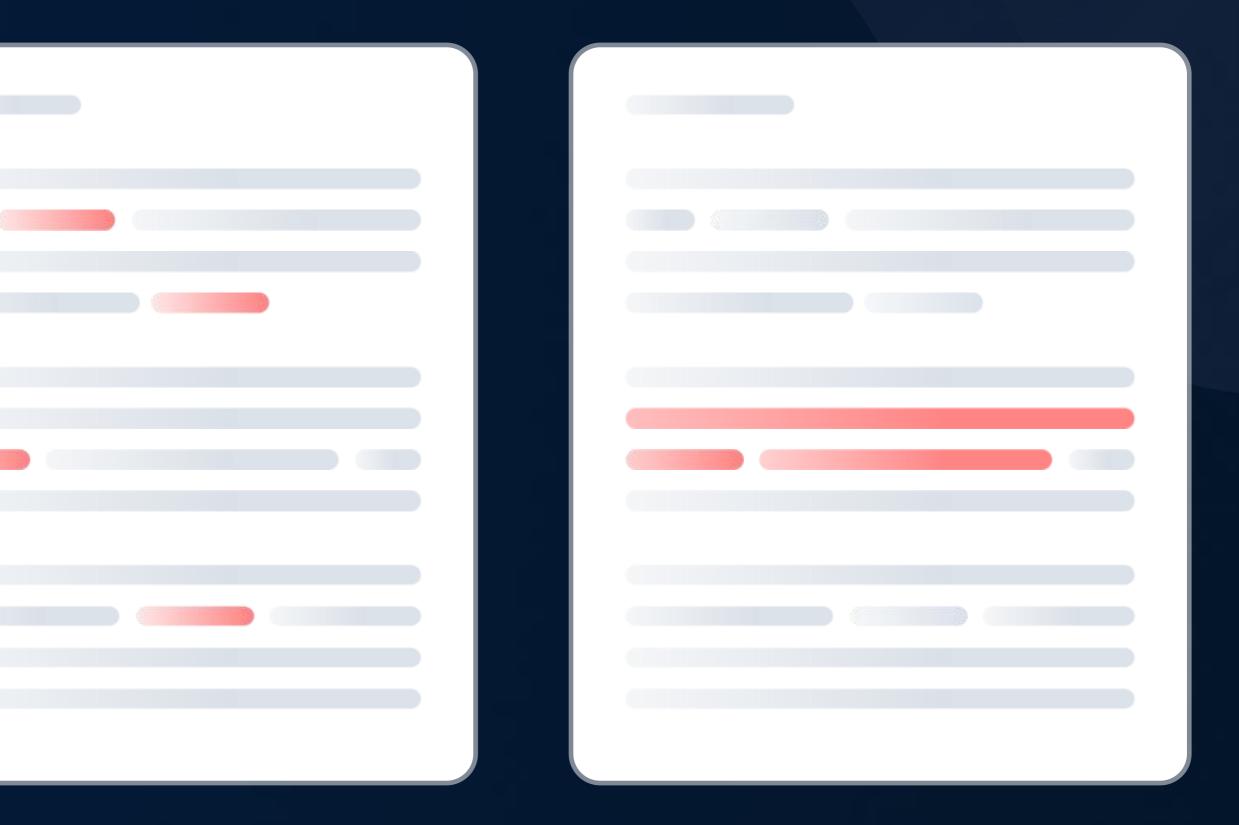




Move beyond a single metric for accuracy

96% - 4 mistakes

99% - 1 mistakes



Was the decision I made using the AI output as good or better than the one I would have made with the manual review?





Move beyond a single metric for accuracy





KEY #5 Embrace a more realistic approach to Al correctness





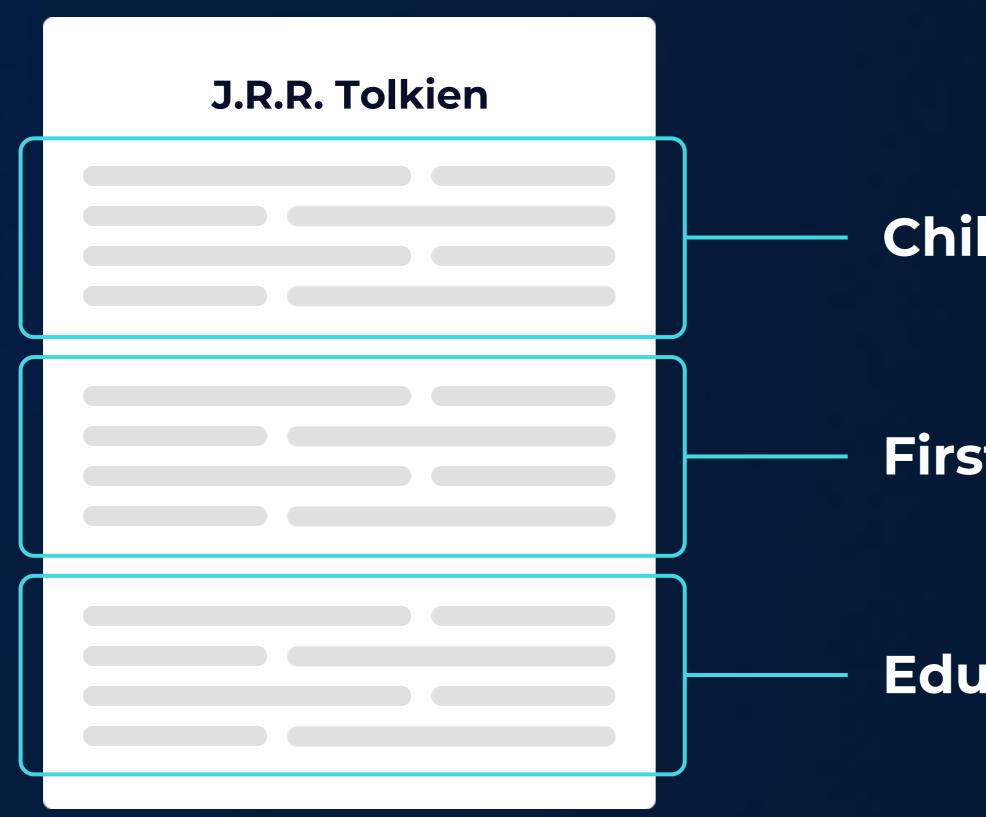


KEY #6 Understand the necessity of large context windows











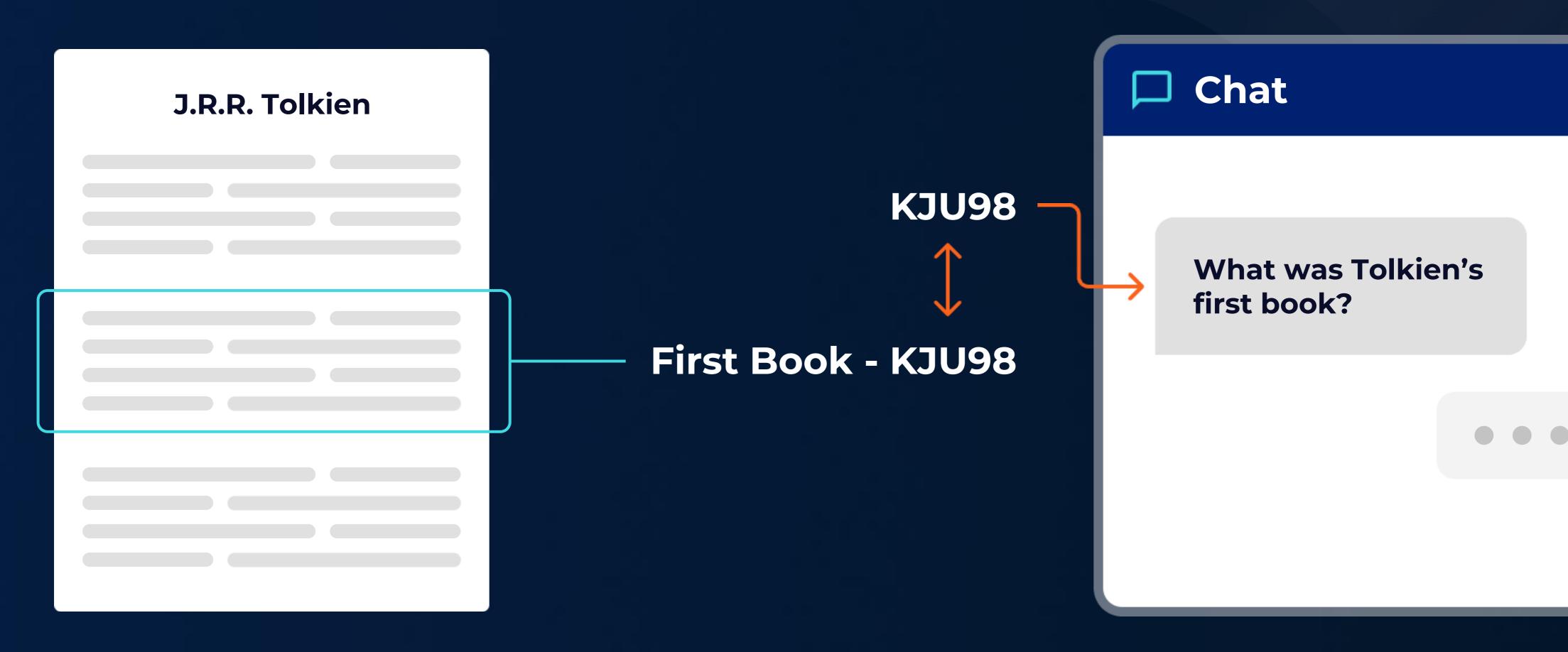
DigitalOwl

Understand the necessity of large context windows

Childhood - X5RGG

First Book - KJU98

Education - ACFE2

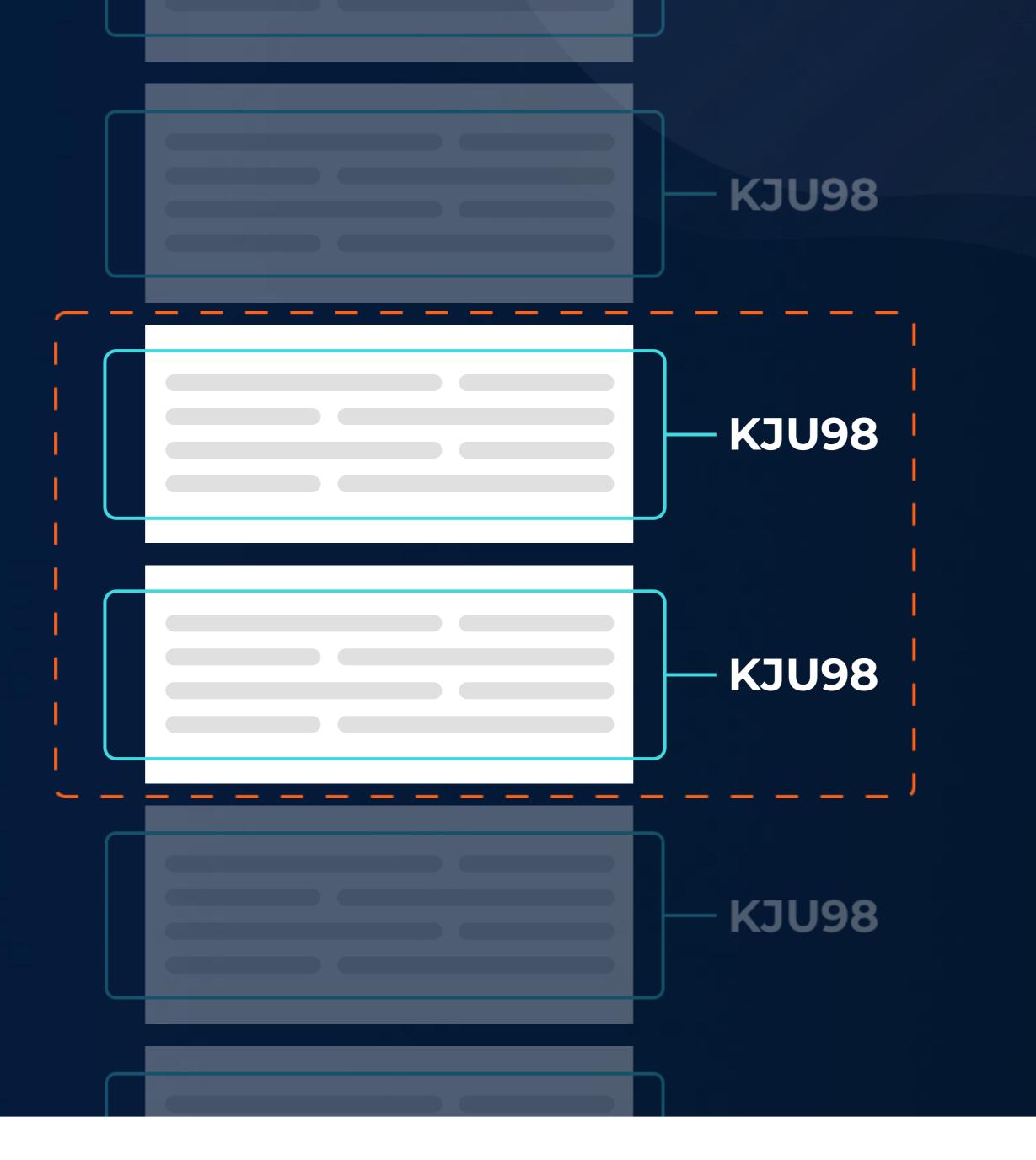




DigitalOwl

Understand the necessity of large context windows





Context Window Limit





Understand the necessity of large context windows

How to train your LLM for Insurance

- + Correctness
- + Completeness
- + Relevance
- + Coherence





DigitalOwl





KEY #7 Use LLMs that are trained for your use-Case





Text Input

 \sim

Large Language Model

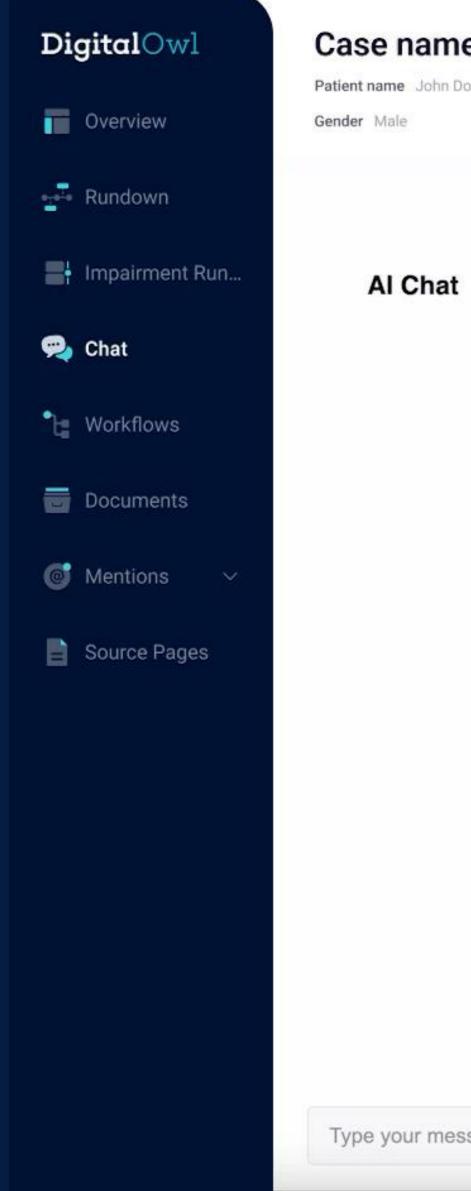
Text Output

KEY #8 Industry experts LLM training have better outcomes







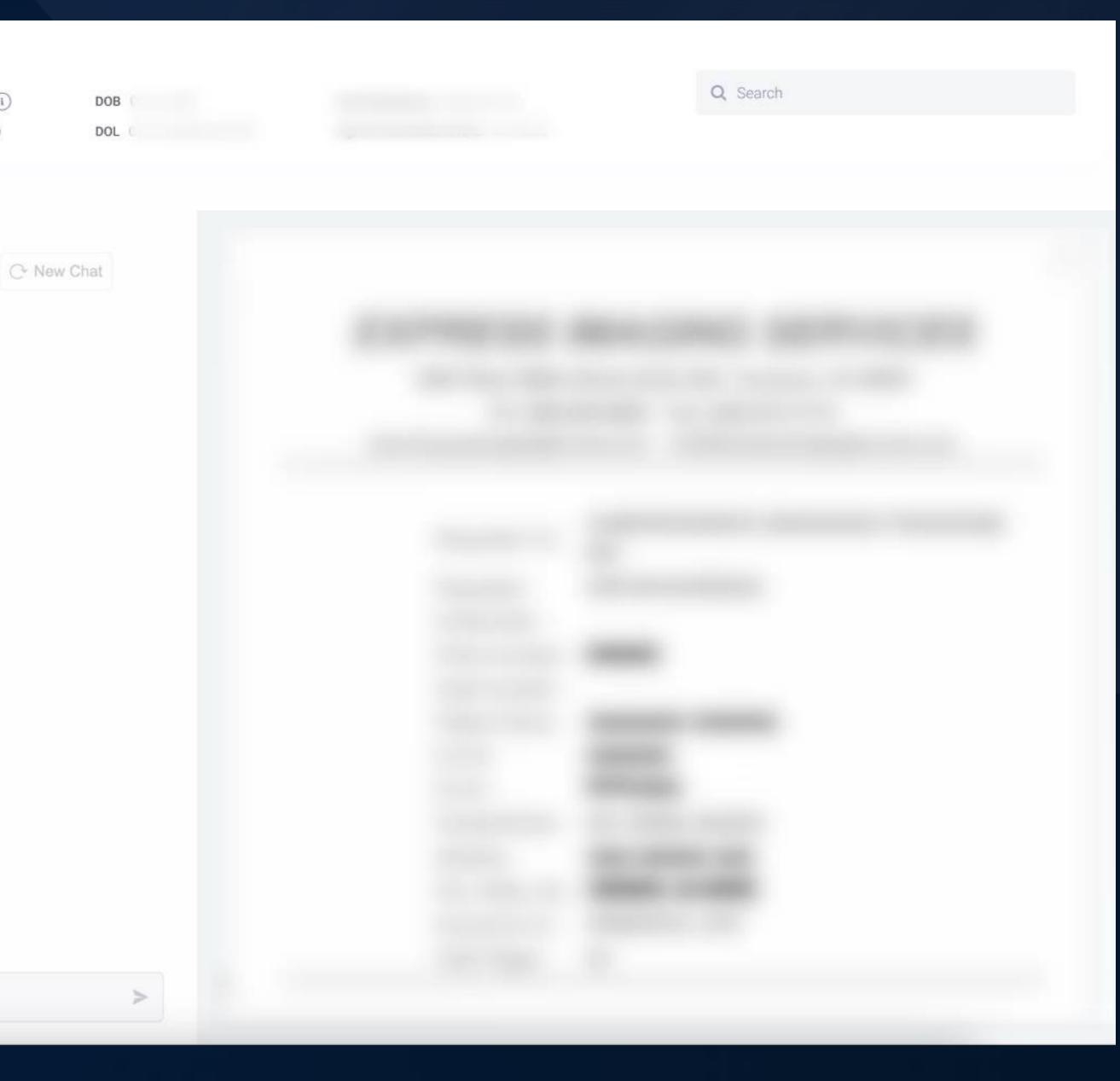


Case name Full Details

Patient name John Doe	Occupation	Weight 250lbs (Avr 1Y before 07/22) (1)
Gender Male	BMI	Height 5 " 6 ' (Avr 1Y before 07/22) (1)

Type your message here...







This demo is for illustrative purposes only; actual UW approach will vary







Navigate the evolving regulatory landscape









KEY #9 Establish guiding principles for your approach to Al







KEY #10 Create a Governance Committee









Bonus Create a risk management framework







Mitigate risk proactively

Create a compelling narrative

Understand risk management basics

Institutionalize critical thinking

Evaluate third-party vendors

26

Path to Automation









What's next?