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Roger Lee — Senior Vice President, Al Success & Sustainability
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February 27, 2024



Introduction



Stephen Drew — Chief Al Officer and Head of Product Management, RNL 20 years of experience leading the development and support of machine learning and conversational Al systems. Former VP of Al @ Five9, VP of Al @ Uniphore, Global Head of Contact Center Technology @ Cigna. Doctorate, Applied Al, DePaul.



Roger Lee — SVP of Al Success and Sustainability, RNL 20 years of extensive expertise spanning finance, operations, service management, and quality assurance. Roger held numerous top-level roles in contact centers and technology solution firms including Deluxe Corporation, Thomson Reuters, HP, OpenText, Gridspace, and Uniphore.



So Hye Park — Applied Al Scientist, RNL
5 years of experience in data science, data analytics, and linguistics research. MA in
Applied Linguistics from Ewha University, MS in Quantitative Methodology from
University of Maryland, Ph.D. candidate in Applied Linguistics at University of Maryland.

Agenda

- 1. Introductions
- 2. What are large language models and conversational AI?
- 3. Responsible AI: Cutting through the noise
- 4. Conversational AI for enrollment, fundraising, and analytics
- 5. What is AI @ RNL?
- 6. Q&A, next steps

What are large language models and conversational AI?

Explaining large language models (LLM)



- An LLM is a neural network trained on billions of unstructured documents.

 This allows the LLM to predict the next words in sequence following an input string.
- ChatGPT (GPT-4) from OpenAl is the best-known and most widely used LLM today.
 However, it is costly, has latency issues, and does not guarantee privacy.
- Open-source models from Meta, Mistral, and others are rapidly catching up to OpenAI.
 Most experts expect LLama70b v3 from Meta (expected in late Q3) to achieve GPT-4 quality.

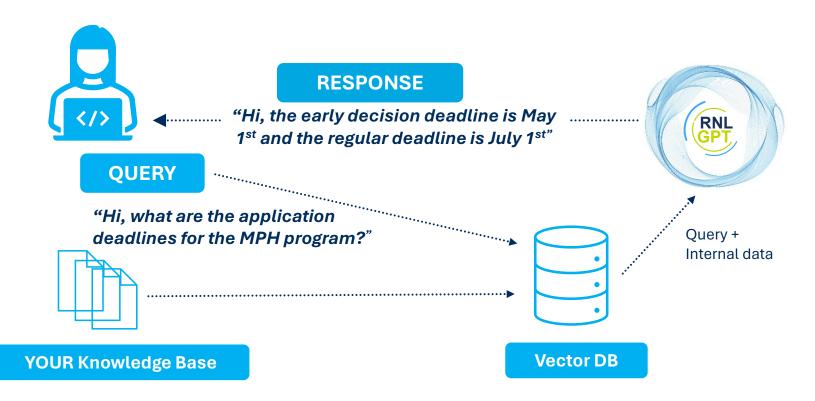
Explaining retrieval augmented generation (RAG)

RAG combines the conversational abilities of large language models with the factual accuracy of training documents. This allows us to **deploy conversational solutions very quickly** because we no longer need to program paths for everything someone says (or types).

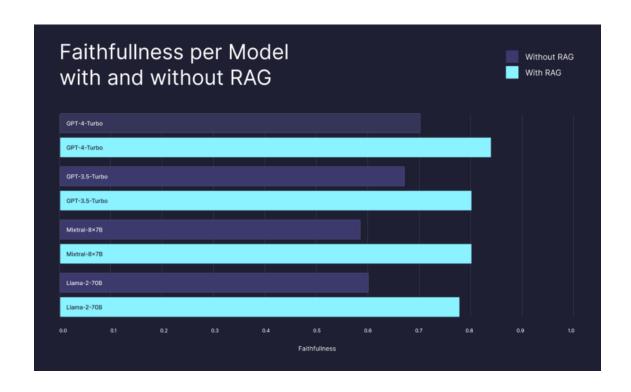


Ultimately, RNL's approach allows us to achieve near ChatGPT-level quality with lower cost, better performance, and secure open-source models.

Explaining RAG (continued)



Model performance with RAG



A study from Pinecone showed that using Mixtral-8x7b with RAG allowed it to achieve the same level of quality as GPT-3.5-Turbo and nearly the same quality as GPT-4-Turbo.

RNL-GPT uses the Mixtral-8x7b model with RAG to power our generative Al solutions.

Responsible AI: Cutting through the noise

Balancing innovation and responsibility

Responsible Al

Formalize the AI use case intake process with defined requirements, including managing compliance and risks.

Recognition of the unpredictability and difficulty in explaining outcomes from neural network-based models such as large language models and computer vision systems.

Al governance and risk management framework, tooling, and transparency reporting for RNL and our clients.



Innovation

Exploration of generative AI models' integration with existing structured and unstructured data sources.

Leveraging modern AI models and knowledge systems to drive intelligent conversations, distill information quickly, and uncover valuable insights from data.

Controlled releases of innovative new products and services that build on the consulting expertise and predictive analytics capabilities of RNL.

Enterprise Al Governance Framework

Enterprise AI governance sits between business goals and the enterprise teams implementing them



University goals

- Investments and budgeting
- Environmental, social, and governance
- Defined use cases what problem(s) are we trying to solve?

Al strategy and roadmap

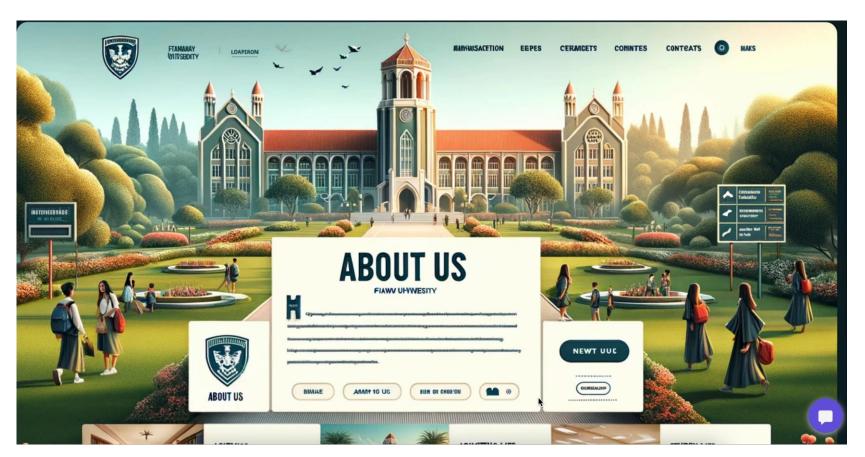
- Responsible Al standards
- Methodology and processes
- Risk management
- Regulatory compliance

Plan → build → deploy → monitor

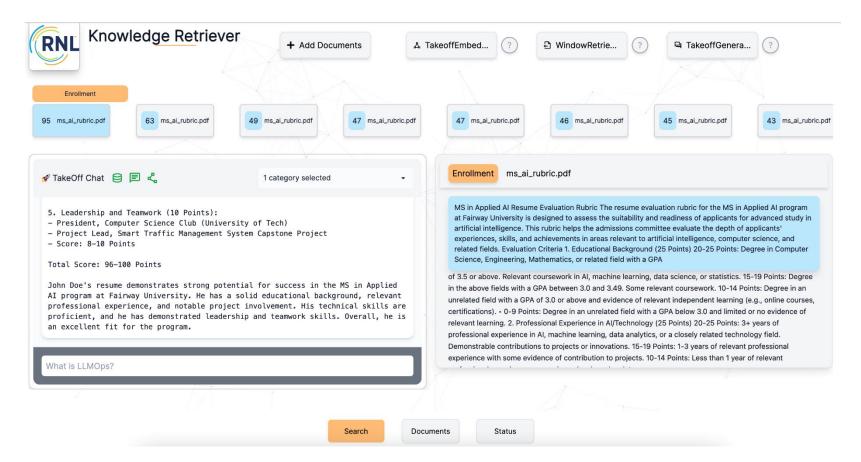
- Teams and skilling
- Technology, data, and tools
- Al performance metrics
- Enterprise IT integration

Conversational AI for enrollment, fundraising, and analytics

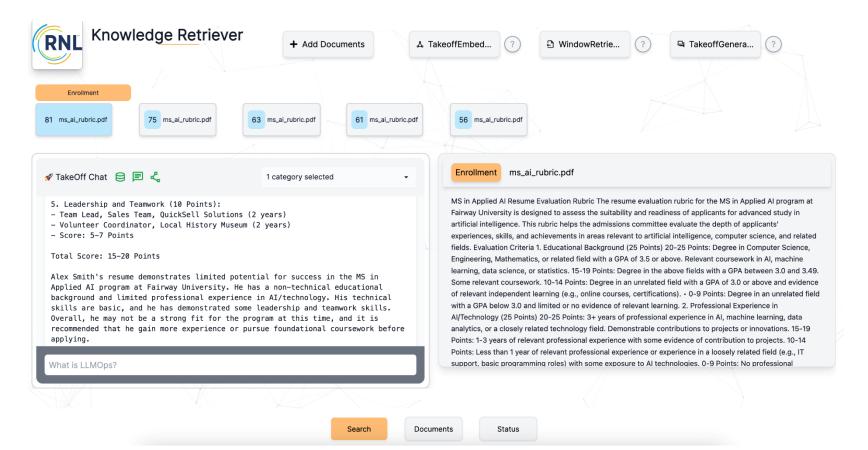
Conversational AI for enrollment



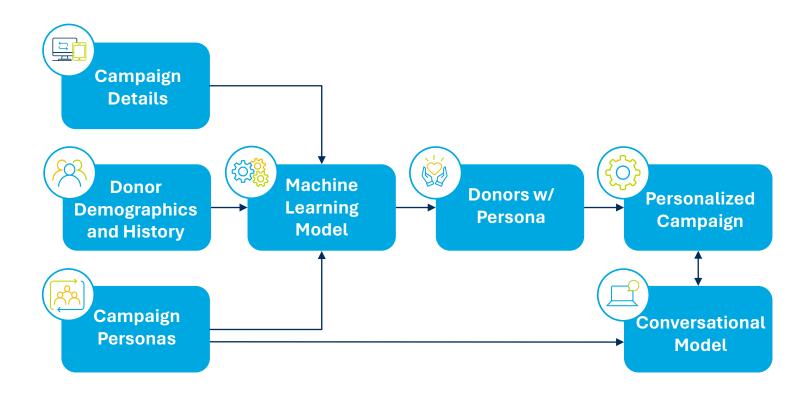
Applicant evaluation



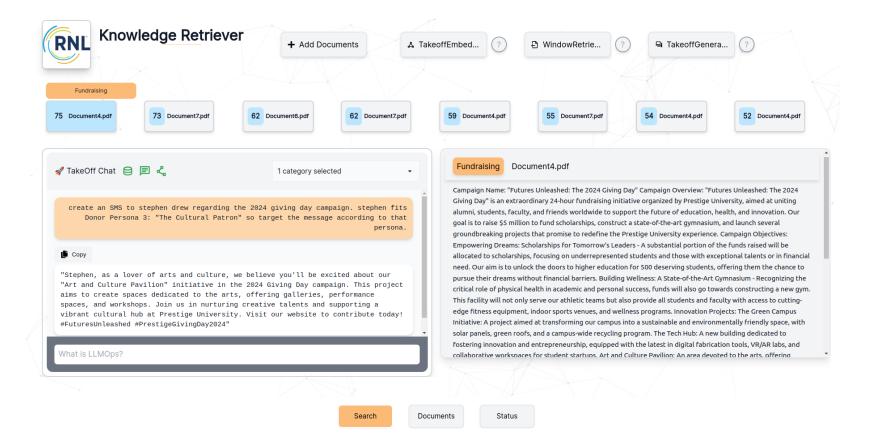
Applicant evaluation



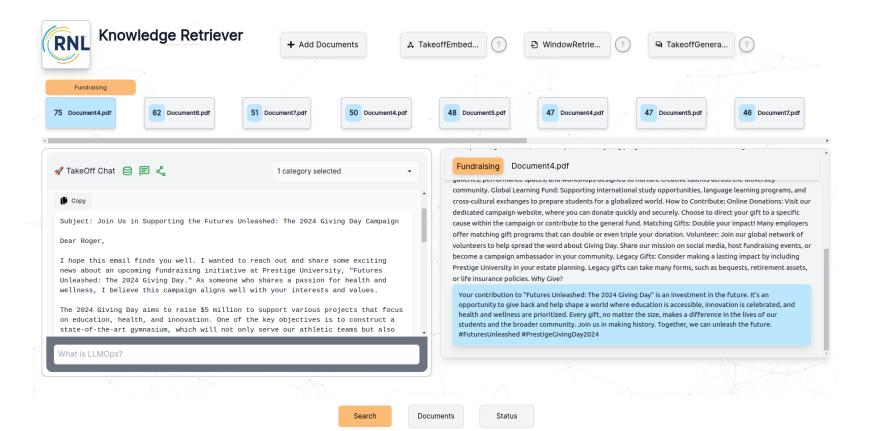
Conversational AI for fundraising



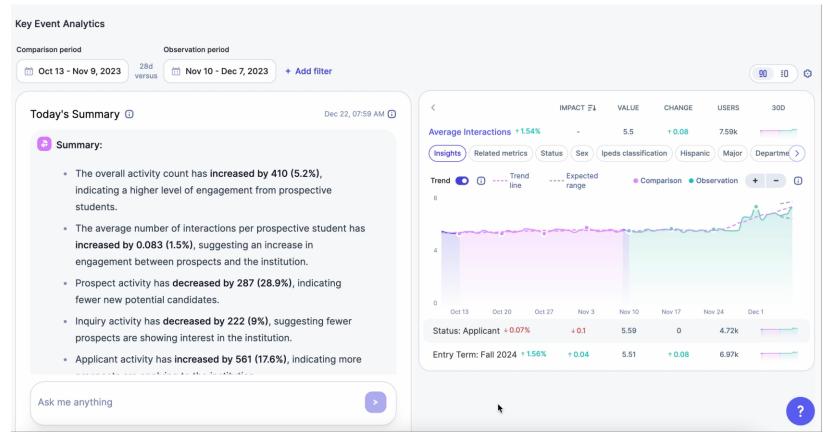
Conversational AI for fundraising



Conversational AI for fundraising



Conversational AI for analytics



What is AI @ RNL?

AI @ RNL for 2024

We will release RNL-GPT, our private model trained with RNL consulting expertise and augmented with client-provided data to enable multiple conversational AI solutions. RNL-GPT guarantees complete privacy and security of client-provided data.

We will leverage RNL-GPT to produce:



RNL Digital Assistant

Multi-modal Conversational Assistants for enrollment, student success, and fundraising.



RNL Knowledge Retriever

A private and secure ChatGPT-like experience for RNL clients and generative AI features for RNL SaaS platforms.



RNL Insights Hub

A conversational interface using client data (CRM, SIS, etc.) and RNL-generated data to produce strategic insights.

Use cases for Al

Digital Assistant	Knowledge Retriever	Insights Hub
 Program Q&A Application assistance	Academic support & advisingTest preparation	 Uncover insights from your CRM data faster using natural language Provide senior leaders with access to intuitive views and summaries of key activities Benchmark against similar universities Generate insights from RNL GPT
FAFSA guidance	Writing assistants	
Financial guidance (student loans, making	Essay evaluationContent creation	
informed decisions) • Alumni support	Brainstorming Email responses	
 Personalized outbound contacts for recruiting, follow-ups, and fundraising (calls, SMS) 	Email responsesSEO keyword blueprints	





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Increasing Conversion and Enrollment Through Intelligent Web Engagement

March 14, 2024 | 2 p.m. ET

Transform your website into a highly engaging experience for prospective students by making each web visit more personalized and meaningful for them.

Presenters:

Andrea Gilbert — Chief Solutions Officer, RNL

Austen Kelso — Vice President for Enrollment Solutions, RNL

Dallin Palmer — Co-Founder, President, and COO, Halda

RNL.com/WebEngagement

Thank you for your time



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