

# Reimagining Retail Banking: How to Revolutionize CX with Generative Al

James Dean, Global GenAl Specialist Google Cloud

THE FINANCIAL BRAND



### Generative AI holds immense potential for productivity gains for financial services

\$200-340B

value potential in Banking



9-15%

increased productivity of the Banking industry's annual operating profits





#### **Customer Service**

+30-45% of current servicing costs



#### Marketing

+5-15% of total marketing spend



#### Software engineering

+20-45% of current annual spending



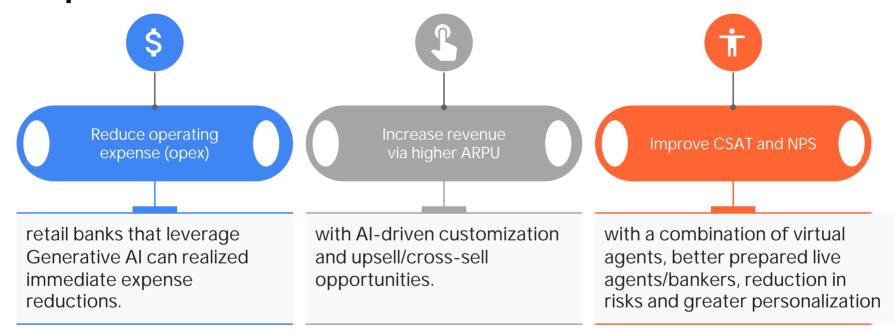
#### R&D

+10-15% of overall R&D costs

Source: "Economic potential of GenAI" McKinsey, 2023



### Generative Al creates a better customer experience at a fraction of the cost



### Banking's Gen Al Trinity:

- \*Scalable Al Platform\*
  - \*World-Class LLMs\*
    - \*Human Ingenuity\*





### Gemini marks the next phase on Google's journey to making Al more helpful for everyone

- Natively Multi-modal including text, code, images, audio and video
- Better understanding and reasoning across modalities
- Expanded context window (up to 1 Million Tokens)

#### Scalable Generative Al Platform



#### It takes more than just a model to drive business value with GenAl

- Ease of Use and Accelerated Development
- Model Garden for Pre-Trained Models
- Customization and Fine-Tuning
- Scalability and Reliability
- Responsible Al Features
- Develop and deploy production ready applications
- Integration with greater tech ecosystem (i.e. Cloud)
- Continuous Innovation

# Human Ingenuity fuels Al Innovation

### Google's mission is to organize the world's information and make it universally accessible and useful

- We care a lot about how technology can affect people's lives. No doubt jobs will shift, as they always have. But many jobs will be complemented by these technologies, and entirely new jobs we can't imagine today will be created as well.
- Responsible AI remains a top priority at Google, and we are continuing to invest in the teams that work on applying our AI Principles to our technology.
- We published our own AI Principles in 2018 focused on fairness, safety, privacy and accountability, and we've also shared detailed guidelines and tools to empower others to use AI for good. Additionally, we consistently have ethical AI / ML reviews to ensure we are keeping pace with this rapidly changing industry
- Al needs to be regulated it's too important not to. We strive to be a helpful
  and engaged partner to regulators, offering our expertise, experience and
  tools as we navigate these issues together.

#### Revolutionize Experience, Not Just Service

**Use Cases that will Transform the Customer Experience** 

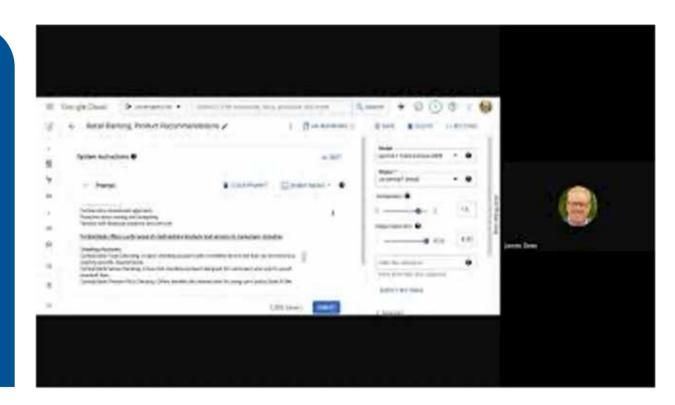
- Personalized Financial Advice and Product Recommendations
- Virtual Agents and 24/7 Customer Support
- Fraud Detection and Prevention Systems
- Seamless and Intelligent Customer Onboarding and KYC Processes
- Al-Powered Content Generation for Marketing and Engagement



#### Gemini: Product Recommendations Demo

Retail banks can utilize generative AI to analyze vast amounts of customer data to deliver hyperpersonalized product recommendations tailored to each individual's unique needs and preferences.

- Enhanced Customer Profiling: Generative
  Al can analyze customer transaction history,
  spending patterns, financial goals, and
  demographics to create detailed customer
  profiles, enabling banks to offer highly
  relevant product recommendations.
- Proactive Customer Engagement:
   Generative AI can anticipate customer
   needs based on their financial behavior,
   proactively offering relevant products and
   services, like personalized discounts,
   targeted promotions, or early alerts for
   potential financial risks.





#### Hyper-Personalized Financial Advice

Generate intelligent summaries of relevant documents with sourcing provided, helping analysts focus their time on the most important information.

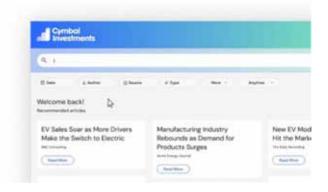
**Example:** Gen Al can explore topics with natural language, assist in sentiment analysis, and aggregate financial data

I need to assess the semiconductor industry



Investment manager

Example only



Summarized view of research from internal and external data sources

### Generative AI can help transform customer service across engagement models to deliver four benefits:

Boost agent &

employee productivity

Improve self-service & deflection rates

Modernize chat & voice infrastructure

Enhance insights & customer predictions



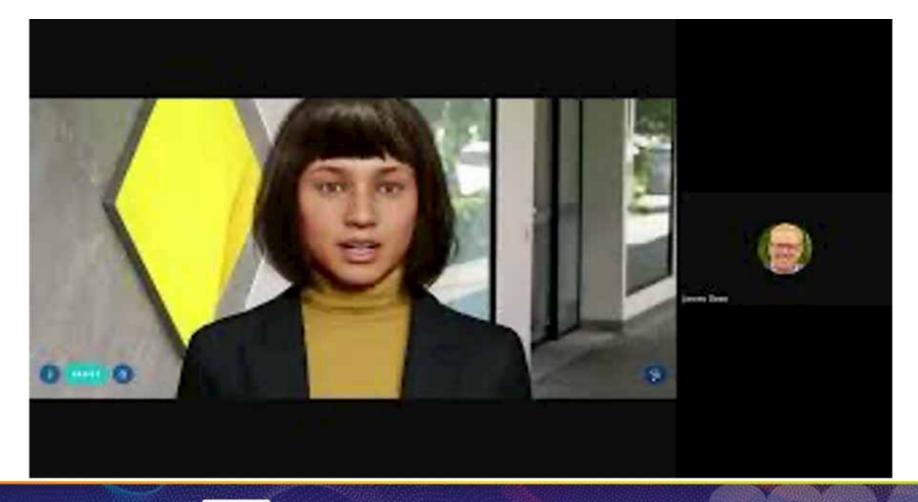


#### Generative Al improves self-service experience & deflection rates

Virtual agents enhance retail banking customer experience by providing:

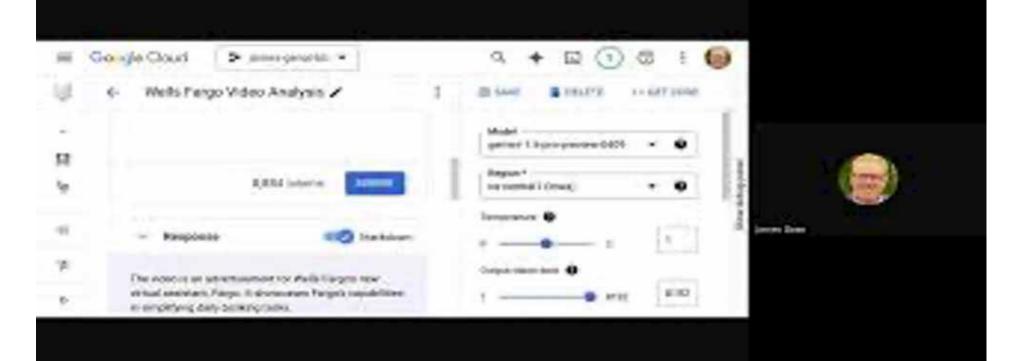
- 24/7 immediate support for common inquiries and basic transactions.
- Personalized interactions through data analysis and tailored recommendations.





Virtual Acont and 24/7 Customer Support





#### **Agent Assist**

Al empowers human Agents to be more productive and provide better service, by providing in-the-moment assistance

#### Live Transcription

Transcribes all interactions between customer and agent automatically, including PII reduction.

#### Smart Reply (Chat only)

Suggests chat responses for the agent using conversation context

#### LLM Assist & Coach

Offers real-time, step-by-step coaching guidance











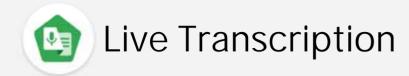
Provides agent-facing infobot and proactively surfaces generative answers with relevant knowledge articles.

#### Summarization

Real-time abstractive call summary with customizable focus area and writing styles

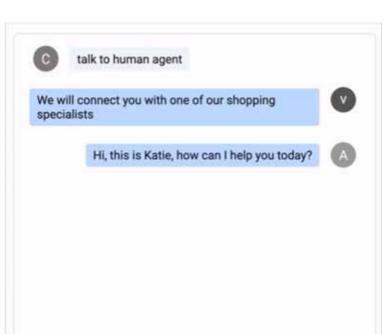






#### **Key Benefits**

- Useful as captions
- Improves agents' comprehension of, attention to, and memory for the conversation, especially for non-native speakers, hard-of-hearing audio streaming, noisy environments.
- Provides agents the ability to check previous information from the call.
- Can be sent to customer as a reference
- Could be stored the transcription in a CRM for further lookup.





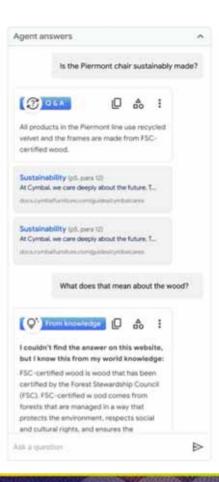
### LLM Knowledge Assist Agent-facing infobot

#### What it does:

- Semantic search
- Provides answers based on doc content (FAQ, docs, websites, pdf, etc.)
- Real-time use of agent/customer conversation context (Q3'23)
- Proactively suggest queries or answers (Q3'23)

#### Benefits:

- Extractive and generative capabilities
- Short answer snippets from long docs
- Answer snippets that agents can use as responses



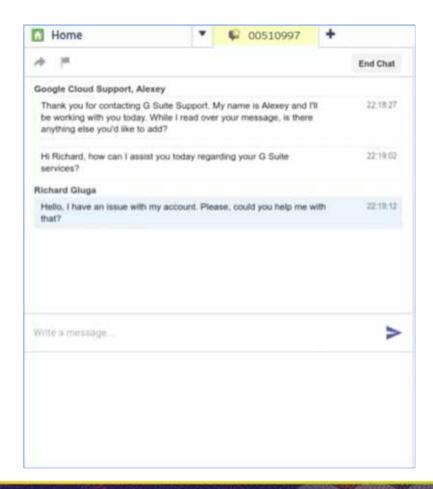




Smart Reply predicts what the agent should say next, based on the conversation context and your historic data.

#### Key benefits

- Reduces time to respond to customer messages
- Helps agents maintain context across multiple conversations
- Personalization: Increase agents' use of the suggested responses



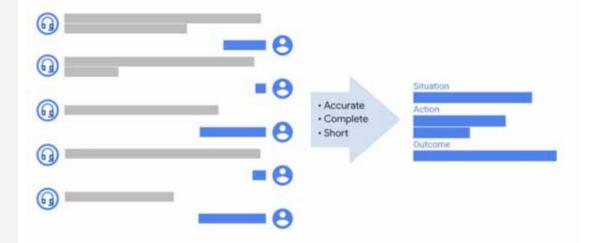




Support bot and human conversation summaries

#### Key benefits

- Help agents understand customers' request and previous conversation with call summary
- Suggest summary draft at the end of a conversation; help agents to write better formatted summary with much less effort







#### LLM Assist & Coach

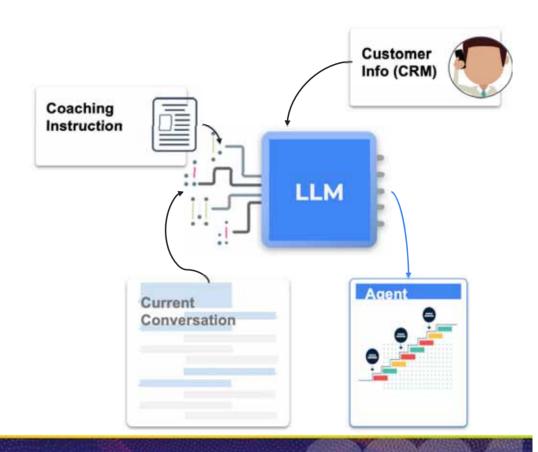
#### Allows you to self-define prompts

- Compliance/Behaviour Coaching
   E.g., Authentication; AHT watcher
- Task-oriented Coaching
   E.g., Troubleshooting
- Upsell & Cross-sell E.g., Plan upgrading

#### Agent Training Cost is High

- 1. Onboarding Training cost is high ( \$7500 per agent, 1-3 mos)
- 2. Turn-over rate is high. (30-45% yearly; Agent Churn in 6 -12 mos)

Gaps between high performing and average performing agents are huge.





#### Generative AI-powered Dynamic Risk Profiling and Fraud Detection

Generative AI can significantly enhance the customer experience in retail banking by streamlining legitimate transactions, expediting approvals, and enabling personalized service.

- Reduced Friction: By continuously analyzing customer behavior and transaction patterns, AI can adapt security measures in real-time, minimizing the need for intrusive authentication for low-risk activities.
- Faster, More Accurate Decisions: Al can rapidly assess risk and identify fraudulent activity, leading to faster loan approvals, quicker transaction processing, and fewer false declines.
- Personalized Banking: By understanding individual customer preferences and risk profiles, AI can tailor product recommendations, credit limits, and service offerings to each customer's unique needs.







#### Seamless and Intelligent Customer Onboarding and KYC Processes

### **Document Analysis and Data Extraction:** Implement a Generative Al-powered document upload feature that does the following:

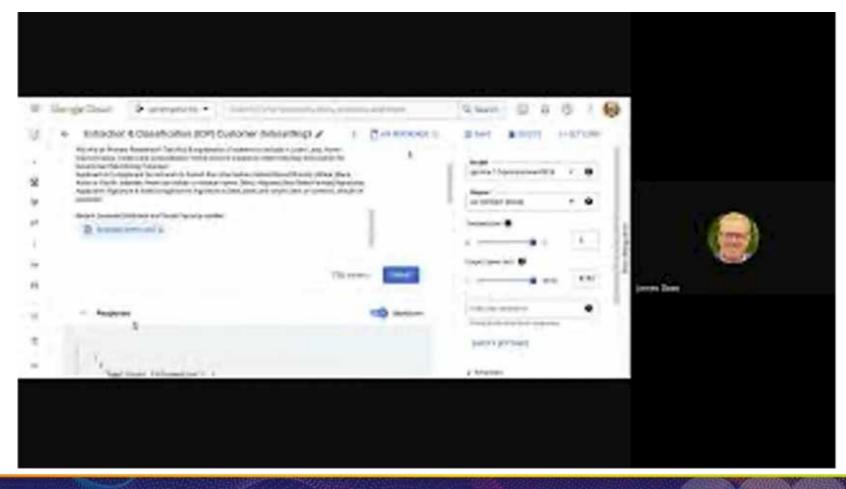
- Accepts various identity document types (passports, driving licenses, applications etc.).
- Extracts relevant data from these documents using image recognition and text analysis techniques (e.g., name, address, date of birth).
- Flags inconsistencies or discrepancies for further review.











#### Al Banking of the Future



### **ACTION ITEM #1**

Identify high-impact use cases that benefit the customer



### **ACTION ITEM #2**

# Establish ethical Al guidelines



### **ACTION ITEM #3**

# Invest in AI talent and training





## Thank you!

#### **JAMES DEAN**









