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Transforming Contact Centers with CCAI

Brillio's Approach to Virtual Assistants and AI-Driven Engagement

The role of the contact center is being redefined. No longer just a back-end support function, it is fast becoming a strategic differentiator in the digital economy. As customer expectations evolve, support must be fast, intelligent, and omnichannel. At the same time, enterprises are under pressure to manage costs, reduce complexity, and stay agile.

This new reality demands a fundamental shift. Legacy systems and siloed workflows can't deliver the real-time, personalized experiences today's customers expect. In response, forward-looking organizations are adopting an AI-first mindset - embedding intelligence across the contact center to elevate engagement, streamline operations, and unlock new value.

This evolution is already underway - and accelerating. Enterprises are rapidly deploying technologies like NLP, machine learning, virtual agents, and real-time sentiment analysis. These capabilities are no longer optional - they're essential. More than half of contact centers have already invested in conversational AI, with nearly as many planning to follow. Most IT and CX leaders agree: AI is already improving productivity, self-service, and satisfaction.

At Brillio, we see this as a moment not just to automate - but to reimagine. By helping clients build integrated, scalable AI ecosystems, we enable a new era for contact centers - one that empowers agents, anticipates customer needs, and delivers truly intelligent service-at-scale.

What's Holding Contact Centers Back?

The structural challenges that technology alone can't fix

While the vision for AI-powered contact centers is gaining momentum, the reality remains fragmented. Many organizations are still held back by outdated systems, siloed data, and legacy support models built for a different era. However, the real barriers to transformation aren't technical - they're structural.

Traditional contact centers are designed for volume, not experience. Support is reactive, channels operate in isolation, and data is scattered across systems. The result is inconsistent service, frustrating interactions, and slow resolution times - conditions that are not only inefficient but increasingly unsustainable.

This creates pressure on both sides of the conversation. Customers face long waiting times, repetitive exchanges, and limited self-service. Meanwhile, agents are under-supported and overburdened, left to navigate complex issues with little context or real-time guidance. Morale suffers, and operational costs rise.

These inefficiencies run deep. Manual workflows, poor routing, fragmented knowledge, and weak feedback loops continue to dominate. Even well-meaning transformation efforts fall short when data remains disconnected, and customer journeys lack cohesion.

At the core, there's a fundamental misalignment: organizations invest in technology, but without a strategy centered on both the customer and agent experience, the returns rarely materialize.

Brillio's view is clear: you can't modernize the contact center by simply adding AI on top. It must be rearchitected - with AI as a core enabler of intelligent, connected engagement. That means moving beyond automation to adopt a holistic, insight-led approach - one that aligns systems, people, and strategy around a new model of service.

Brillio's Approach: Intelligent, Human-Centered Service at Scale

How we turn AI into real experience transformation

To meet rising expectations and deliver measurable business value, AI must be deeply embedded into every layer of the contact center: from customer interaction to agent enablement to real-time decision-making.

Our approach is rooted in creating intelligent, human-centered experiences. We use natural language technologies to power smarter conversations, enabling virtual agents that understand context, respond naturally, and continuously learn. Live call transcription, sentiment detection, and smart summarization equip agents with the

insights they need to resolve issues faster and more confidently.

But intelligence isn't just about conversations – It's about orchestration. Our solutions optimize every step of the support journey. Intelligent routing connects customers to the right resources instantly. Predictive models anticipate needs before they're voiced. Agent assist tools deliver real-time prompts, knowledge, and recommendations – all aligned to the unique context of each interaction.

Our architecture is modular and cloud-native, designed for seamless integration with leading CRMs, contact center platforms, and messaging channels. Whether clients are just getting started with automation or ready to scale GenAI across the enterprise, we build with flexibility and growth in mind.

Importantly, we do all this with trust at the center. Brillio's Responsible AI framework ensures ethical model behavior, data transparency, and human oversight – because AI must be not only powerful, but accountable.

Brillio's Solution Architecture

Enabling Smarter Conversations and Journeys

Brillio's Contact Center AI framework is built to transform service from reactive support to intelligent experience delivery. At its core are advanced natural language capabilities - NLP, NLU, and NLG - that fuel smarter conversations, enable real-time transcription, extract intent and emotion, and generate dynamic, personalized responses.

These capabilities support virtual agents that don't just handle FAQs but manage nuanced customer needs with contextual understanding. For human agents, we deliver real-time assist features - automated call summaries, knowledge prompts, and sentiment-aware suggestions - that help reduce handle time and improve outcomes.

Designed to Integrate, Not Overhaul

Brillio's architecture connects effortlessly with leading CRM systems, contact center platforms, messaging apps, and voice providers to deliver AI-at-scale without replacing existing investments.

We support native integrations with Salesforce, Oracle, and SAP CRMs. Messaging channels like WhatsApp, Slack, and Messenger are enabled through Dialogflow. For voice, we partner with providers such as Twilio and SignalWire to deliver end-to-end coverage.

This integration-first approach ensures clients can adopt AI quickly and incrementally - building toward transformation without compromising stability.

Modular by Design, Scalable by Default

Built on Google Cloud, our architecture combines flexibility, speed, and resilience. At the entry point, load balancing ensures optimal performance even under peak demand. Dialogflow serves as the conversational engine, orchestrating virtual agents, speech-to-text, and real-time agent assist tools.

Modules like SpeakerID enable secure voice authentication, while downstream data pipelines feed analytics tools such as BigQuery for continuous learning and improvement. Our GenAI models are deployed and governed through Vertex AI, enabling fast iteration and model retraining based on live usage.

Every component is modular - allowing clients to scale horizontally as needs evolve, without redesigning their foundation.

Process That Learns and Improves in Real-Time

From first interaction to resolution, Brillio's AI-enabled process flow is designed for speed, context, and adaptability. Virtual agents handle initial queries with contextual understanding, escalating to human agents only when needed - seamlessly passing intent, history, and emotional cues.

Agent Assist tools provide in-the-moment support: surfacing knowledge, offering guided next steps, and summarizing calls in real-time. Each interaction feeds back into the system - enabling FAQ refinement, model retraining, and smarter recommendations over time.

This creates a self-improving ecosystem, where every interaction drives sharper insights, faster resolution, and higher customer satisfaction.

Brillio's Implementation Strategy: From Experiment to Enterprise-Scale AI

A pragmatic strategy for real-world transformation

Brillio's approach to Contact Center AI is to help clients move quickly and strategically - proving value fast, and scaling with intention.

We begin with a focused **Proof of Concept** - a low-risk, high-impact engagement to validate foundational AI capabilities. This includes basic Dialogflow-based virtual agents, intent recognition, fallback handling, and simple FAQ automation. The goal is to demonstrate feasibility, gather initial feedback, and surface early KPIs.

In the **MVP phase**, we formalize these capabilities into a working system. The deployment scales in terms of volume and channels, with conversation history and feedback and custom topic modeling. This stage still relies on pre-trained models but introduces configuration for business-specific flows and integration with additional data sources and messaging platforms. It's about building confidence through live usage.

Finally, we move into **Expansion** - where the full vision takes shape. Advanced GenAI capabilities are introduced, including smart recommendations, multilingual support, and real-time agent assist. At this stage, model pipelines, LLMOps frameworks, and responsible AI governance are layered in to enable scalability, compliance, and continuous improvement across geographies and lines of business.

Measurable Outcomes, Not Just Deployments

Successful deployment is not just about implementation – it’s about architecture, adaptability, and outcomes.

We tailor our architecture to each client’s cloud environment and contact center landscape, optimizing for speed, accuracy, and scale. Our AI pipelines are designed to minimize latency while maintaining accuracy, and our models are selected based on real-world performance, not theoretical benchmarks.

We prioritize seamless integration with existing systems – avoiding disruption and accelerating adoption. Every element, from workflow automation to agent augmentation, is tied to clear KPIs: faster resolution, lower cost-to-serve, improved CSAT, and greater agent satisfaction.

Brillio’s phased, insight-driven execution strategy doesn’t just look good on paper – it delivers measurable results across industries.

For a Fortune 100 tech firm, AI-powered proactive engagement helped reduce unscheduled maintenance by over 20%, driving better uptime and retention.

In the e-commerce and payments space, AI-enabled self-service improved customer satisfaction by 25% and reduced resolution time by 40% while easing the burden on agents.

A global B2B services provider saw a 15% increase in retention and a 20% boost in upsell revenue after deploying Brillio’s predictive guidance tools.

For a telecom giant, real-time expert assist capabilities cut escalated resolution times in half, delivering faster outcomes at scale.

These outcomes reflect more than effective execution—they represent what’s possible when AI is embedded with purpose, and transformation is led with intent.

About Brillio

Brillio is a digital technology services company that drives AI-first engineering and design-led experiences for global enterprises. Born digital in 2014, its consulting-led services span Customer Experience, Data & AI, Product Engineering, and Digital Infrastructure. With an industry-leading NPS of 71, Brillio accelerates time to market through its proprietary BrillioOne.ai platform, powered by AI-ready talent with deep domain expertise.

Brillio is the official Digital Transformation Partner and the official Data and AI Services Provider of Atlassian Williams Racing. Brillio partners with leading technology providers including Microsoft, AWS, Google Cloud, Salesforce, Adobe, Databricks, and Snowflake and operates with 6,000+ “Brillians” across 15 global delivery centers. Consistently recognized as a Great Place to Work® since 2021, Brillio blends innovation, talent, and purpose to deliver measurable outcomes for clients and fulfilling careers for employees.



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