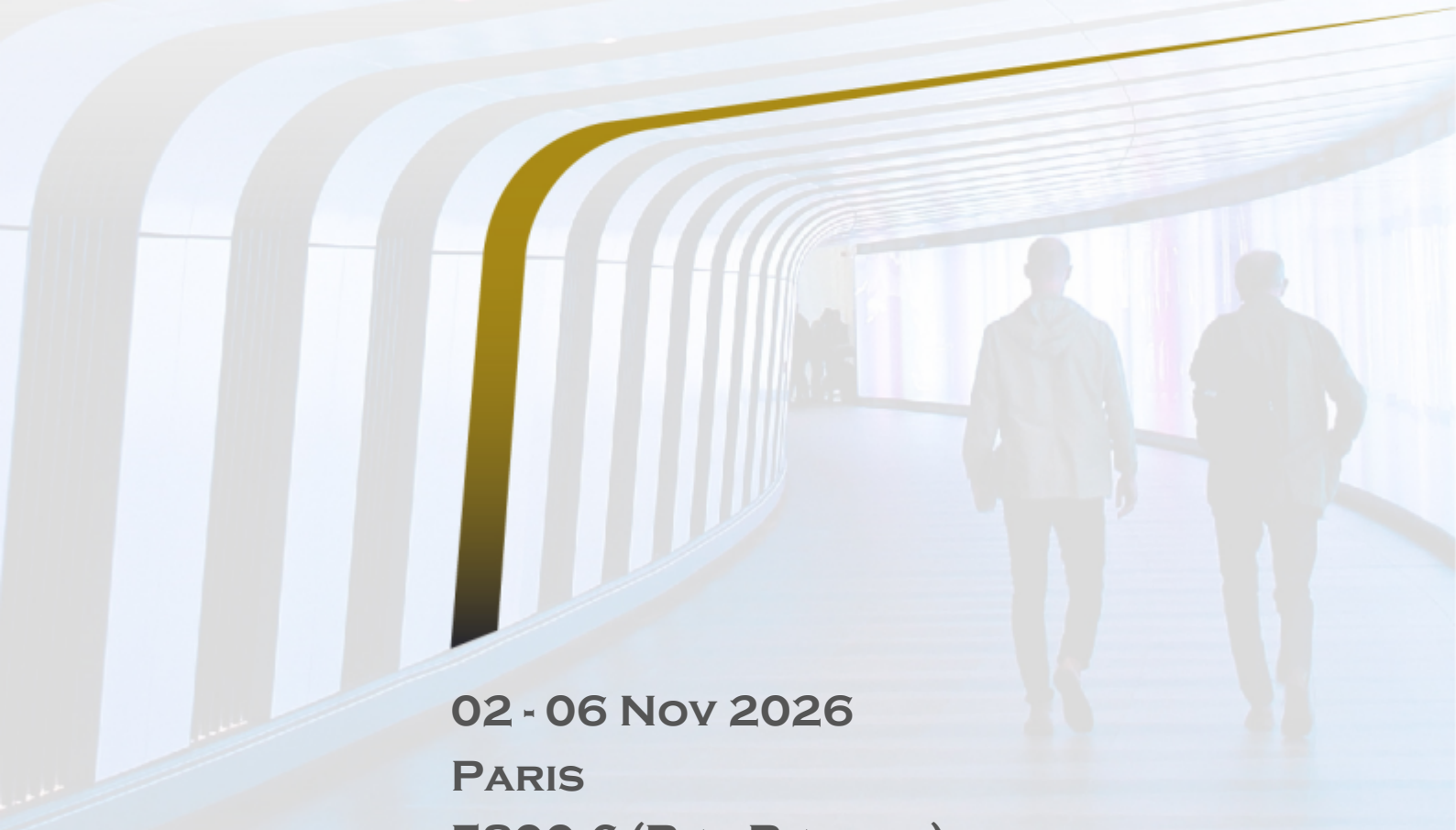
# AI Chatbot Development for Customer Service Excellence Training Course



02 - 06 Nov 2026

Paris

5800 € (Per Person)

Ref: #AI8951_174067

## Course Introduction / Overview:

In today's digitally-driven world, customer expectations for instant, personalized, and effective support are at an all-time high. This has propelled conversational AI and chatbots from a niche technology to a cornerstone of modern customer service strategy. This comprehensive training course is designed to provide a complete A to Z guide on leveraging this transformative technology. We will move beyond basic concepts to explore the entire lifecycle of chatbot development, from initial strategy and conversational design to deployment, analytics, and continuous optimization. As detailed in foundational texts like "Speech and Language Processing" by authors Daniel Jurafsky and James H. Martin, the principles of natural language processing are critical to creating human-like interactions. This course, offered by BIG BEN Training Center, bridges the gap between theory and practice, equipping participants with the skills to build intelligent virtual agents that not only solve customer issues efficiently but also enhance user experience and drive business growth. Participants will learn to create chatbots that understand user intent, manage complex dialogues, and integrate seamlessly into an omnichannel customer support ecosystem, ensuring their organization stays ahead of the curve in customer engagement.

## Target Audience / This training course is suitable for:

- Customer Service Managers and Team Leaders.
- IT Professionals and Software Developers.
- UX/UI Designers and Researchers.
- Product Managers and Business Analysts.
- Digital Transformation and Innovation Specialists.
- Marketing and Customer Engagement Professionals.
- Entrepreneurs and Business Owners.
- Aspiring AI and Machine Learning Practitioners.

## Target Sectors and Industries:

- Banking and Financial Services.
- Retail and E-commerce.
- Healthcare and Pharmaceuticals.
- Telecommunications and Technology.
- Travel and Hospitality.
- Insurance Sector.
- Government Agencies and Public Services.
- Utilities and Energy Sector.

## Target Organizations Departments:

- Customer Support and Service Departments.
- Information Technology (IT) and Development Teams.
- Marketing and Digital Engagement Departments.
- Sales and Business Development Units.
- Product Management and Innovation Labs.
- Operations and Process Improvement Teams.
- User Experience (UX) Departments.

## Course Offerings:

By the end of this course, the participants will have able to:

- Develop a strategic framework for implementing conversational AI in customer service.
- Apply core principles of conversational design to create intuitive user experiences.
- Design and map effective dialogue flows for various customer service scenarios.
- Understand the technical foundations of chatbots, including NLP, NLU, and NLG.
- Build and train a functional chatbot using industry-standard concepts and platforms.
- Integrate chatbots with websites, messaging apps, and other business systems.
- Implement advanced features like sentiment analysis and personalization.
- Analyze chatbot performance metrics to measure ROI and identify areas for improvement.
- Develop a strategy for testing, deploying, and maintaining customer service chatbots.
- Evaluate the ethical considerations and security risks associated with conversational AI.

## Course Methodology:

The training methodology at BIG BEN Training Center is designed to be highly interactive, practical, and engaging, ensuring participants can immediately apply their learning in a real-world context. We move beyond traditional lectures to foster a dynamic learning environment built on a foundation of experiential activities. The course heavily emphasizes hands-on labs and workshops where participants will actively design and build chatbot prototypes. Real-world case studies from various industries will be analyzed in group discussions to understand successful implementation strategies and common pitfalls. Collaborative team projects will encourage participants to work together on solving complex customer service automation challenges, mirroring a professional development environment. Interactive sessions, Q&A panels, and peer-to-peer feedback are integrated throughout the five days to facilitate knowledge sharing and deeper understanding. Our expert instructors provide continuous guidance and personalized feedback, ensuring each participant masters the core competencies of chatbot development and leaves with a tangible skill set ready for immediate application in their organization.

## Course Agenda (Course Units):

### Unit One: Foundations of Conversational AI in Customer Service

- Introduction to Conversational AI and Chatbots.
- The Evolution of Customer Service and the Role of Automation.
- Types of Chatbots: Rule-Based vs. AI-Powered.
- Understanding Key Concepts: NLP, NLU, and NLG.
- The Business Case: Calculating ROI for Chatbot Implementation.
- Identifying Use Cases for Chatbots in Your Organization.
- Market Landscape and Future Trends in Conversational AI.

### Unit Two: Strategic Planning and Conversational Design

- Defining Your Chatbot's Purpose and Goals.
- Identifying and Understanding Your Target Audience.
- Developing a Unique Chatbot Persona and Tone of Voice.
- Principles of Effective Conversational Design (UX for Chatbots).
- Mapping the Customer Journey and Key Interaction Points.
- Designing Intuitive and Efficient Dialogue Flows.
- Crafting Welcome Messages, Fallbacks, and Error Handling.

### Unit Three: Chatbot Development and Core Technologies

- Introduction to Chatbot Development Platforms and Frameworks.
- Defining Intents and Recognizing User Goals.
- Identifying and Extracting Entities from User Input.
- Building and Training Your NLU Model.
- Scripting Responses and Managing Conversation Context.
- Introduction to API Integration for Dynamic Data Retrieval.
- Hands-On Lab: Building a Basic FAQ Chatbot.

## Unit Four: Advanced Features and Omnichannel Integration

- Implementing Sentiment Analysis to Gauge User Emotion.
- Techniques for Personalizing the Chatbot Experience.
- Integrating Chatbots with Websites and Mobile Applications.
- Deploying Chatbots on Messaging Platforms (e.g., WhatsApp, Messenger).
- Introduction to Voice User Interface (VUI) Design for Voicebots.
- Managing Handoffs from Chatbot to Human Agents Seamlessly.
- Ensuring Chatbot Security and Data Privacy Compliance.

## Unit Five: Deployment, Analytics, and Continuous Improvement

- Best Practices for Chatbot Testing and Quality Assurance.
- Strategies for a Successful Chatbot Launch and Deployment.
- Key Performance Indicators (KPIs) for Measuring Chatbot Success.
- Analyzing Conversation Logs to Identify Improvement Opportunities.
- Using Analytics to Optimize NLU Performance and Dialogue Flows.
- A/B Testing and Experimentation for Continuous Enhancement.
- The Future: Generative AI and Large Language Models (LLMs) in Customer Service.

# FAQ:

### Qualifications required for registering to this course?

There are no requirements.

### How long is each daily session, and what is the total number of training hours for the course?

This training course spans five days, with daily sessions ranging between 4 to 5 hours, including breaks and interactive activities, bringing the total duration to 20 - 25 training hours.

## Something to think about:

As conversational AI becomes indistinguishable from human agents, what ethical frameworks must organizations establish to ensure transparency and maintain customer trust?

## What unique qualities does this course offer compared to other courses?

This course distinguishes itself by adopting a holistic, strategy-first approach to conversational AI, moving far beyond a narrow focus on coding or specific software tools. While many programs concentrate solely on the technical build, we emphasize the entire ecosystem required for success. We dedicate significant time to the critical pre-development stages of strategic planning, user journey mapping, and conversational design, ensuring participants learn how to create chatbots that are not just functional but truly user-centric and aligned with business objectives. The curriculum is built on a foundation of practical application, featuring extensive hands-on labs and real-world case studies that challenge participants to solve tangible customer service problems. Furthermore, the course content is forward-looking, addressing advanced topics such as sentiment analysis, omnichannel integration, and the emerging impact of generative AI and Large Language Models (LLMs) on the future of customer interaction. This blend of strategic thinking, practical design principles, and future-focused insights provides a comprehensive and enduring skill set that is immediately applicable and relevant in the rapidly evolving landscape of customer service automation.