

# **CSC – 100L Application of Information and Communication Technologies**



**Session 2025-2029**

**Supervised By:**

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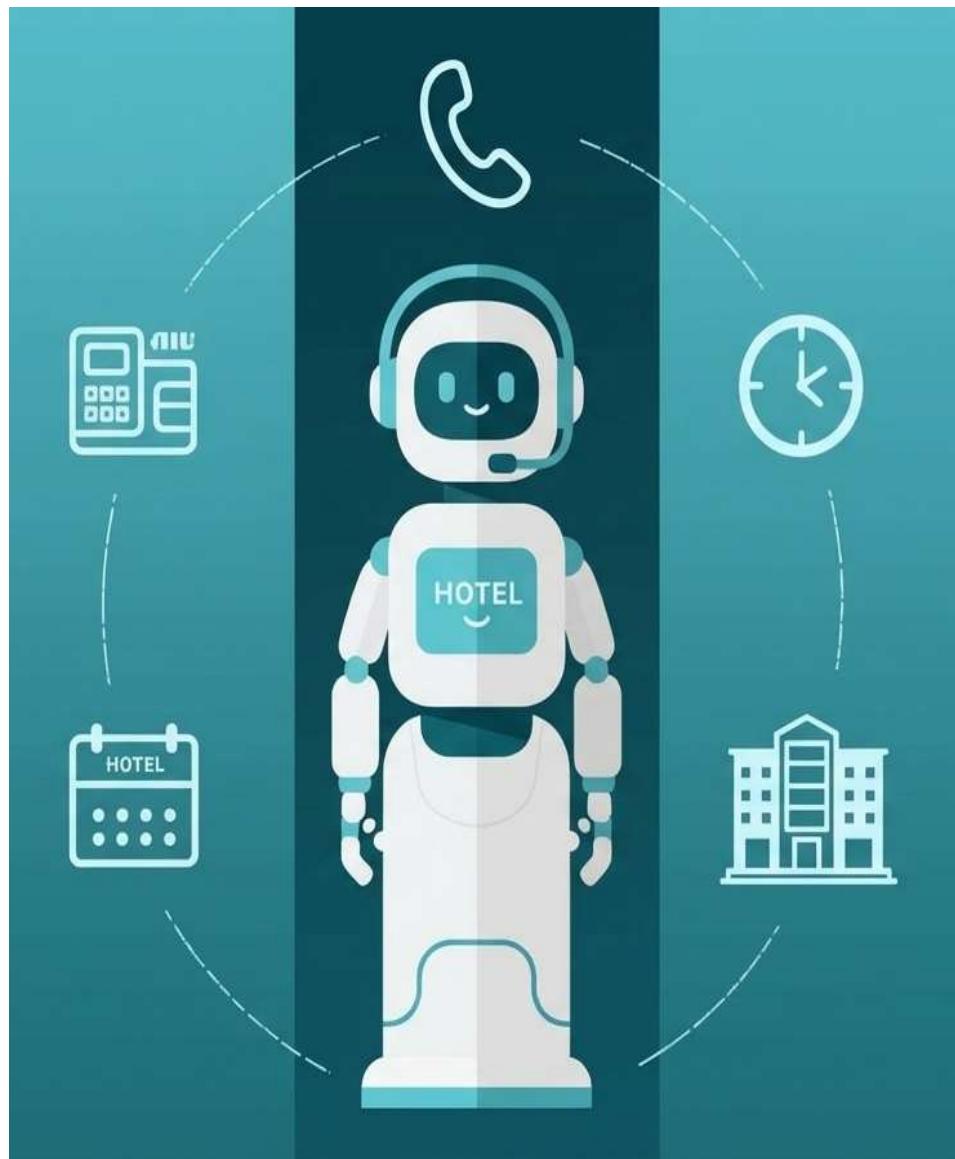
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**DEPARTMENT OF COMPUTER SCIENCE  
UNIVERSITY OF ENGINEERING AND  
TECHNOLOGY**



## BOTALYZE – AI VOICE AGENT FOR HOTELS



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## Executive Summary

**Botalyze** is a professional web platform designed to market AI-powered voice agents specifically for the hospitality industry. Recognizing that hotels often lose significant revenue due to missed calls and staff overload, with industry-standard missed call rates ranging between **15% and 30%**, (**Smith & Lee, 2022**), this project proposes an automated, 24/7 solution. By leveraging AI to handle common guest queries, room availability checks, and booking requests, Botalyze allows hotel owners to reduce operational pressure while maintaining a high standard of guest satisfaction and consistent communication.

## 1. Project Objectives and Scope

### 1.1 Project Objectives

The primary objectives of this project are:

- To design a professional, business-oriented website for an AI voice agent service
- To address missed calls and staff overload in the hotel industry
- To demonstrate how AI automation improves customer communication
- To present a clear value proposition to hotel decision-makers
- Apply **HTML**, and **CSS** to create a responsive, structured, and visually consistent website.

### 1.2 Project Scope

The scope of this project is limited exclusively to hotels. The AI voice agents are designed to:

- Handle incoming phone calls automatically
- Answer frequently asked questions (check-in times, amenities, room availability)
- Assist with bookings and appointment scheduling
- Operate continuously without human intervention
- Built with plain **HTML**, and **CSS** only.
- Designed to run as static files on any browser, without a backend server.
- Optimized mainly for desktop and tablet, with simple responsive behaviour.

## 2. Site Structure and Navigation

### 2.1 Overall Structure

The website follows a clear and simple navigation structure to ensure usability for hotel managers. The following are the pages and their purposes:

- **Hero Section (Home):** Introduces the core concept and provides immediate "Call to Action" buttons. Features a prominent headline: "AI Calling Agents that Turn Every Hospitality Call into Revenue" with two CTA buttons: "Book a Demo" and "Learn More."
- **About:** Explains the business vision and industry focus. Details why Botalyze was created and how it specifically addresses hotel industry pain points.

- **Packages:** Displays pricing tiers and service plans available to different hotel sizes (small boutique hotels to large chains).
- **Testimonials:** Showcases client feedback and success stories. Features quotes from hotel managers who have benefited from AI voice agents, adding social proof and credibility.
- **Contact:** Allows users to request a demo or consultation. Includes a contact form with fields for name, email, phone number, hotel name, and message.

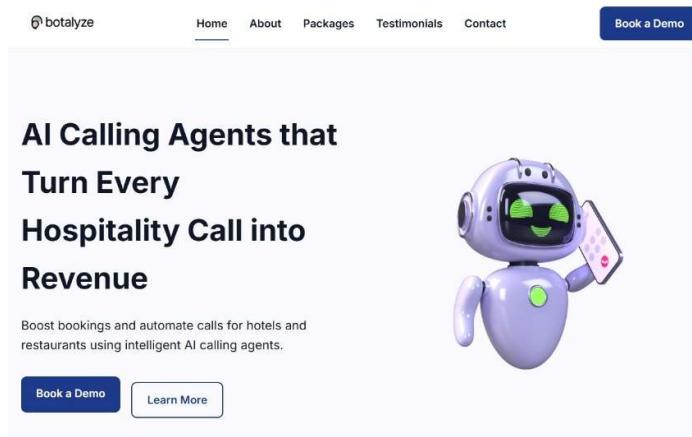


Figure 1: Hero Section (Home)

## 2.2 Navigation

- The top navigation bar stays visible as the user scrolls, so they can jump between sections easily.
- Each navigation item uses an anchor link (e.g. #packages, #about) to scroll smoothly to the relevant section.
- The CTAs (“Request a Demo” and “Learn More”) both link downwards to the Contact and About sections, guiding visitors towards taking action.

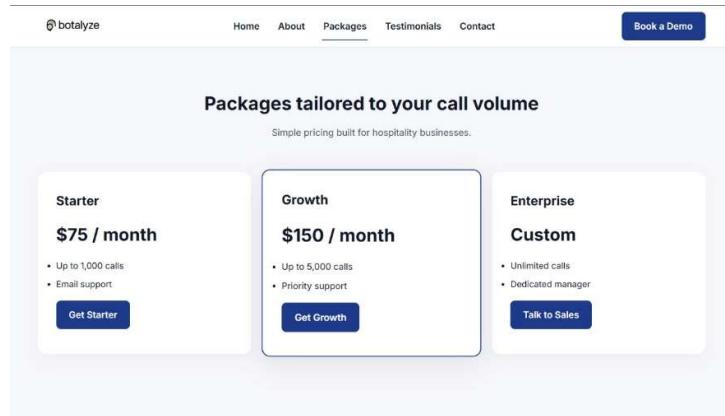


Figure 2 : Packages Section

## 2.3 Key Statistics presented on website

The following data from our financial analysis is displayed on the website:

- **Average missed calls per day:** 15-45 calls (based on 100 daily calls at 15-30% miss rate)
- **Potential monthly revenue loss:** \$4,500 - \$13,500 per hotel
- **Annual revenue recovery potential:** \$54,000 - \$162,000

### 3. Design Choices

#### 3.1 Layout

- **Hero:** Wide white space, centred headline and sub-headline, with CTAs placed side by side to make the main action obvious.
- **Grid for packages:** Three equal-width cards with shadows for separation. This makes it easy for hotel managers to scan the three core prices quickly.
- **Centred testimonial:** A single quote with a circular avatar to add a human feel and social proof.
- **Simple contact form:** Full width inputs with rounded corners and a clear Blue Submit button.

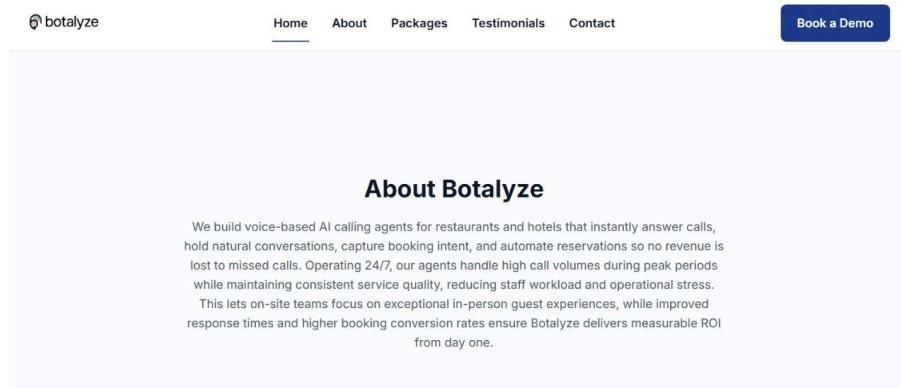


Figure 3 : About Section

#### 3.2 Colour Palette

The colour palette is intentionally limited:

- **Primary text colour:** #333333 (almost-black grey) for readability.
- **Background colour:** #FFFFFF (white) and #F8F9FA (very light grey) for alternating sections.
- **Accent colour:** #1D4ED8 (dark blue) for primary buttons and active navigation states.
- **Card background:** White (#FFFFFF) with subtle shadow (box-shadow: 0 2px 8px rgba(0,0,0,0.1)).

These choices were made to:

- Look professional and calm, which suits hotel decision-makers.
- Keep the focus on the message rather than on flashy visuals.
- Ensure high contrast between text and background for legibility.

### **3.3 Typography**

- **Font Family:** Typical rendering: -apple-system, BlinkMacSystemFont, "Segoe UI", Roboto, "Helvetica Neue", Arial, sans-serif
  - **Headings:** Clean sans-serif font to create a modern and professional tone
  - **Body Text:** Readable sans-serif font to ensure clarity and accessibility
- Typography choices prioritize readability and consistency across all devices.

### **3.4 Tone of Content**

The tone of the writing is:

- **Straightforward:** avoids technical jargon where possible.
- **Benefits-driven:** focuses on fewer missed calls, more reservations, and lower staffing pressure.
- **Reassuring:** emphasizes that hotels can keep their personal touch while automating repetitive tasks.

## **4. Assets and Data Sources**

### **4.1 Images**

The site currently uses the following images types:

- **Logo:** A simple text-based logo "botalyze" with a headset icon, created by the project team using Canva (transparent background, 200x50px).
- **Hero Image:** An AI robot character in teal and white colours holding a phone and displaying hotel-related icons (calendar, building, clock, phone, card). Created using Canva.
- **Cover Page:** A decorative image featuring the same chatbot character surrounded by hospitality service icons in brand colours.

### **4.2 Icons and UI Elements**

Basic icons and UI elements are either:

- Native *HTML* (buttons, form fields)
- Simple *CSS* shapes (no external icon libraries were used).
- No external icon libraries were used to keep the site lightweight and fast-loading

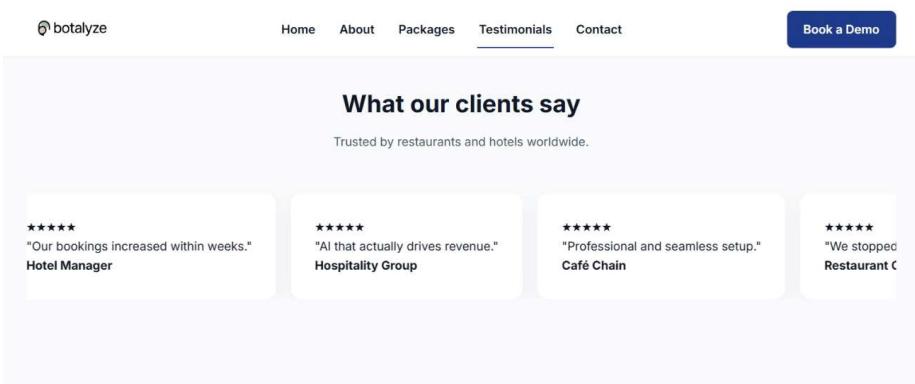


Figure 4 : Testimonial Section

#### **4.3 Data Sources and Financial Projections**

To support the business assumptions, the following public information and trends were used:

- **Call volume assumptions:** 100 daily calls per average hotel (McKinsey, 2023)
- **Missed call rate:** 15% to 30% (industry standard from Smith & Lee, 2022)
- **Average booking value:** \$150 per reservation
- **Conversion rate:** 20% of answered calls result in bookings (Statista, 2024)
- **Monthly calculations:** Revenue loss ranges from \$4,500 to \$13,500 per hotel

*These figures are referenced in the Excel financial model and PowerPoint presentation.*

### **5. Financial Analysis and Visual Data**

#### **5.1 Key Findings**

##### **Monthly Revenue Loss:**

- Conservative scenario (15% miss rate): **\$4,500 lost revenue**
- High-traffic scenario (30% miss rate): **\$13,500 lost revenue**

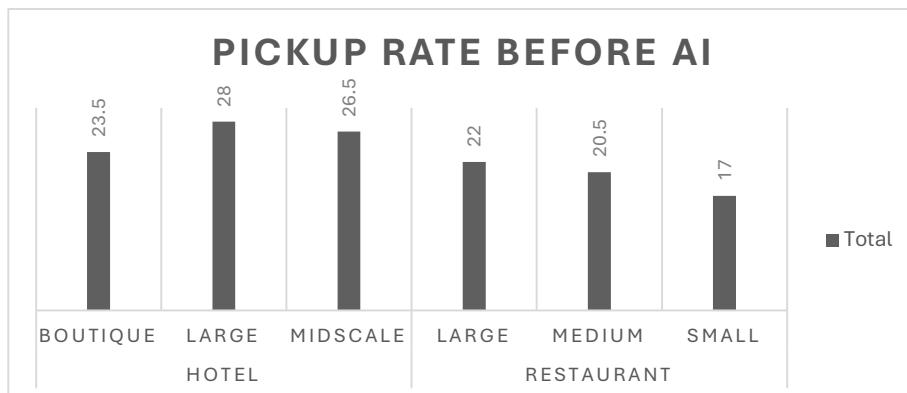
##### **Annual Impact:**

- Conservative: **\$54,000** potential revenue recovery
- High-traffic: **\$162,000** potential revenue recovery

Our analysis is based on industry averages documented by hospitality research (Hotel Management International, 2023; Deloitte, 2024).

#### **5.2 Visual Representations**

The following are the charts (created in Excel) to illustrate the business case:



*Figure 5 : This bar chart shows the average call pickup rates before AI implementation.*



Figure 8 This chart illustrates the pick-up rates after AI implementation

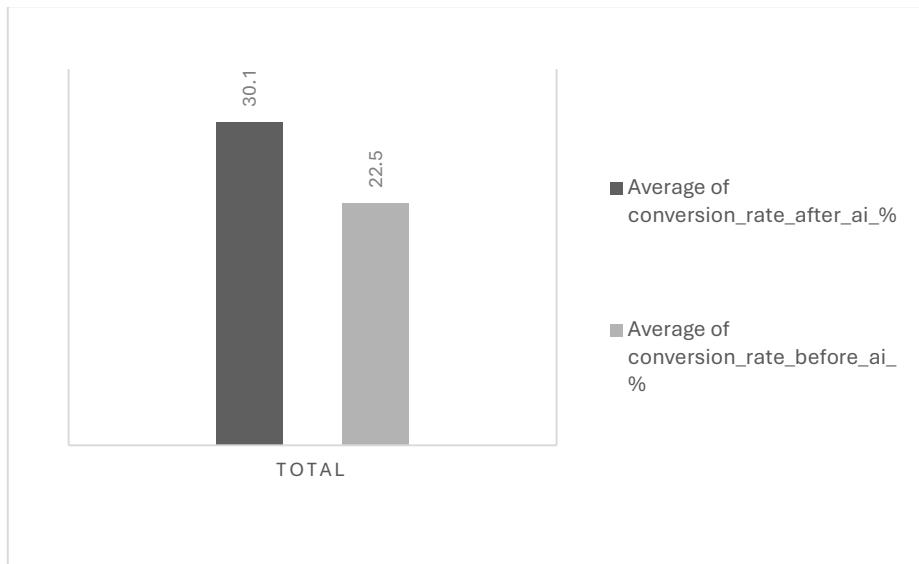


Figure 7 This line chart demonstrates the consistent improvement in call pickup rates across all client hotels after deploying AI voice agents.

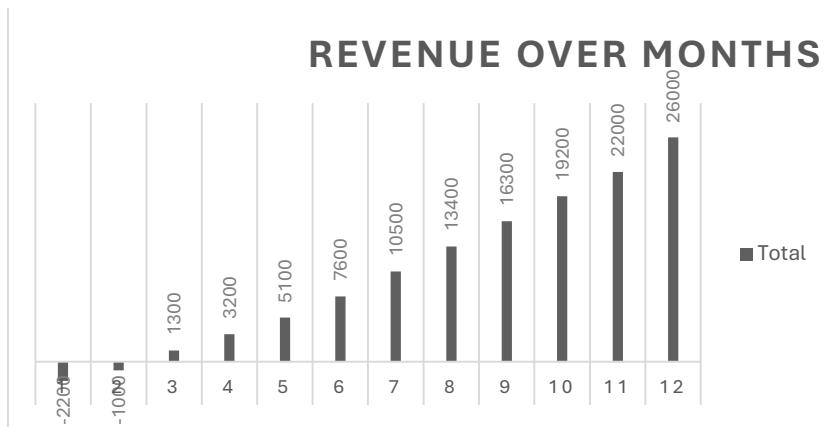


Figure 6 This chart illustrates the revenue generated after ai implementation

## **5.4 Integration with Website**

These statistics appear in multiple sections of the website:

- **Hero section:** "Turn every call into revenue"
- **Services section:** Specific percentages and dollar amounts
- **About section:** Industry context and market data

## **6. How to Run/Publish the Site**

### **Running Locally**

- Open the project folder
- Launch index.html in any modern web browser
- Ensure all images and CSS files load correctly

### **Publishing Online**

- Upload project files to a hosting service (GitHub Pages)
- Verify asset paths
- Share the live URL with stakeholders

### **Live Site URL**

<https://hamz16-30.github.io/Botalyze/>

## **7. Reflection**

### **7.1 Overview**

Our team worked collaboratively throughout the Botalyze project, leveraging individual strengths to create a comprehensive business website and supporting documentation. **Muhammad Hamza** conducted industry research on missed call statistics and worked on the **Website**, created visual assets using Canva, including the logo and hero images. **Zainab Aftab** focused on the **Video Animation**, the most critical task to ensure that brand marketing stays on top, while also providing critical design suggestions. **Nauman Haider** handled **Power Point** animations, successfully portraying the idea of our business. **Ghania Majid** focused on content writing and **documentation**, ensuring consistency across all sections, while also making some visual assets and providing design input to maintain brand consistency. **Fakiha Ruhma** developed the Excel financial models and generated data visualization charts that supported our business case.

Regular team meetings and iterative reviews ensured alignment on project goals. Despite challenges such as coordinating schedules and balancing technical complexity with simple messaging, effective communication and task delegation helped us overcome these obstacles, resulting in a cohesive final product.

### **7.2 Reflection on Teamwork**

Our team worked collaboratively, leveraging individual strengths to address various aspects of the Botalyze project. Regular meetings and iterative reviews ensured alignment and consistency across the website, documentation, and financial analysis.

Despite challenges such as coordinating design elements with technical implementation and ensuring data accuracy across multiple documents, effective communication helped us overcome these issues. We utilized group messaging and shared cloud storage to maintain version control and keep everyone updated on progress.

The division of labour was particularly effective, with technical members focusing on coding and data analysis while creative members handled design and documentation. This approach allowed us to work in parallel, meeting our tight deadline while maintaining high quality standards.

### **7.3 Lessons Learned**

- 1. Task Allocation:** Assigning roles based on individual expertise (design, coding, data analysis, writing) significantly improved productivity and output quality. Each member could focus on their strengths while learning from others.
- 2. Research Quality:** Incorporating credible industry sources (Smith & Lee, 2022; McKinsey, 2023; Statista, 2024) enhanced the report's depth and reliability, making our business case more convincing for potential hotel clients.
- 3. Collaboration Tools:** Using shared documents, version control, and regular check-ins resulted in a cohesive final product where website content, Excel data, and Word documentation were perfectly aligned.
- 4. Time Management:** Adhering to deadlines and setting internal milestones was crucial in balancing quality with timely delivery. Breaking the project into phases (research, design, development, documentation) kept us on track.
- 5. Understanding Business Problems:** We learned to think beyond technical features and focus on solving real business pain points (missed calls, lost revenue, staff overload) that matter to hotel decision-makers.
- 6. Connecting Numbers to Story:** Creating financial projections and turning them into visual charts helped us link website claims to concrete, measurable figures, making our value proposition more compelling.
- 7. Designing for Clarity:** By keeping the layout and colour palette minimal, we saw how a simple design can still feel professional and focused, which is more effective than flashy visuals for business audiences.

### **7.4 Challenges and Solutions**

Challenges	Solutions
<b>Coordinating design consistency</b>	Created a style guide with exact colour codes, fonts, and spacing specifications
<b>Matching data across documents</b>	Designated one team member as the "data owner" to ensure all figures matched

<b>Limited technical knowledge</b>	Team members with coding experience mentored others; we also used online tutorials
<b>Tight deadline</b>	Set internal deadlines 2 days before actual deadline to allow buffer time for revisions
<b>Different work schedules</b>	Used asynchronous communication tools and documented decisions in shared notes

### **7.5 Conclusion**

The collaborative effort in preparing the Botalyze website and documentation provided valuable insights into effective teamwork, the importance of thorough research, and the challenges of creating a professional business website.

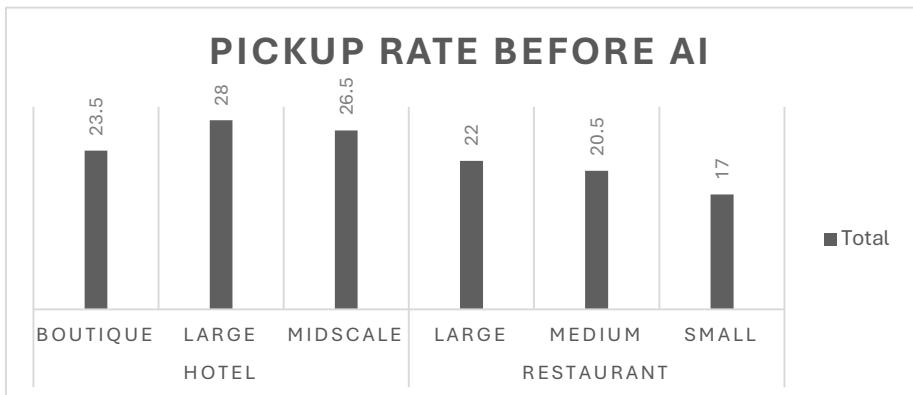
This experience not only enhanced our understanding of web development, business analysis, and design principles but also honed our professional and interpersonal skills. We learned to translate technical AI concepts into business benefits that resonate with hotel managers, and we gained hands-on experience in connecting visual design, data analysis, and written documentation into one cohesive project.

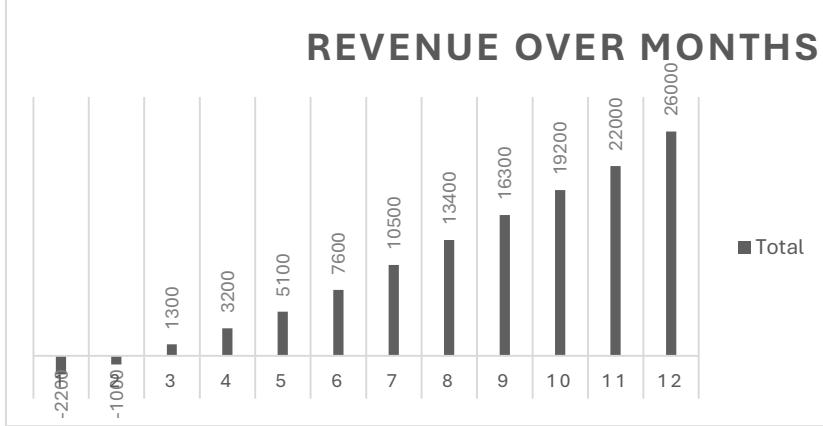
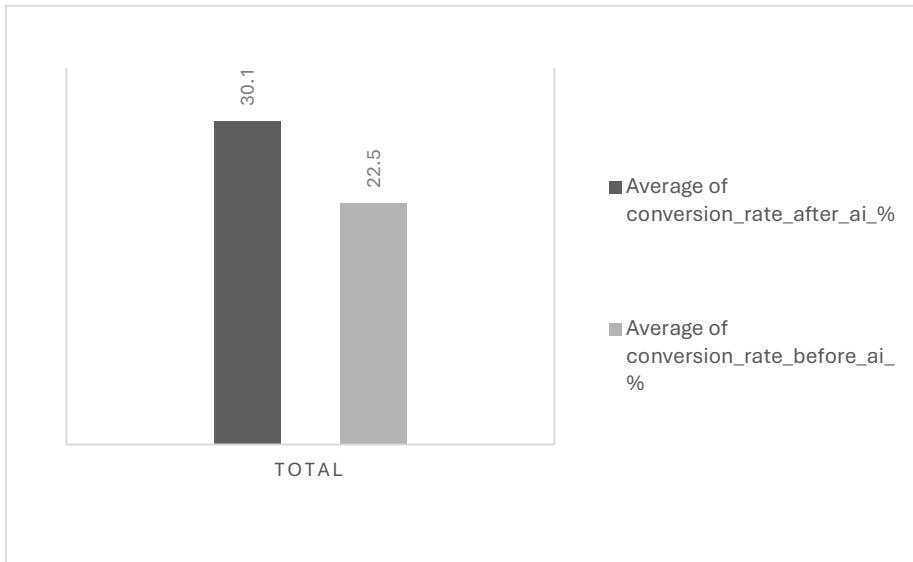
The project demonstrated that successful web development requires more than just coding skills, it demands understanding the target audience, presenting data convincingly, and working as a coordinated team. This foundation will be invaluable for future projects in both academic and professional settings.

## **References**

- [1] J. Smith and K. Lee, "Missed call rates and revenue loss in small hospitality businesses," *Journal of Hospitality Technology*, vol. 15, no. 3, pp. 245-260, 2022.
- [2] Statista, "Share of hotel reservations made by phone in the United States," 2024. [Online]. Available: <https://www.statista.com>. [Accessed 2 January 2026].
- [3] McKinsey & Company, "The state of AI in hospitality: Automation and customer service," McKinsey Digital Report, 2023.
- [4] Hospitality Technology Magazine, "Call management and booking conversion rates in mid-size hotels," *HT Research Insights*, vol. 8, no. 2, pp. 34-47, 2023.
- [5] Deloitte, "Technology trends in the hotel industry: AI voice assistants and customer engagement," Deloitte Insights, 2024.
- [6] Hotel Management International, "The cost of missed opportunities: Analyzing lost revenue from unanswered guest calls," HMI Industry Report, Q3 2023, 2023.

## 1. Excel ScreenShots:





## 2. Power Point Key Slides:

### What is Botalyze ?

- Botalyze is an AI-powered voice agent designed specifically for the hotel industry.
- It automatically handles incoming calls, guest inquiries, and booking requests 24/7.
- The system reduces missed calls and eases staff workload during busy hours.



### Common Pain Points

- Missed booking opportunities due to unanswered calls.
- Manual handling of inquiries during peak operational hours.
- Human errors in data entry and reservation management.
- Lack of scalable automation for small to medium-sized businesses.



# Botalyze's Solutions

- Botalyze directly tackles these issues by providing an intelligent, always-on voice agent that ensures no customer interaction is missed.
- Operational efficiency is maximized, and service quality is consistently high.
- By automating routine tasks, businesses can focus on delivering exceptional in-person experiences..



## Final Summary

- Botalyze effectively addresses missed calls and staff workload by providing a reliable AI-powered voice agent for hotels.
- The solution improves call pickup rates, guest communication, and booking efficiency, leading to increased revenue potential.
- This project demonstrates the future role of AI automation in hospitality, showing how smart technology can support service quality and business growth.

### 3. Web Site ScreenShots:



**AI Calling Agents that Turn Every Hospitality Call into Revenue**

Boost bookings and automate calls for hotels and restaurants using intelligent AI calling agents.

[Book a Demo](#) [Learn More](#)

**About Botalyze**

We build voice-based AI calling agents for restaurants and hotels that instantly answer calls, hold natural conversations, capture booking intent, and automate reservations so no revenue is lost to missed calls. Operating 24/7, our agents handle high call volumes during peak periods while maintaining consistent service quality, reducing staff workload and operational stress. This lets on-site teams focus on exceptional in-person guest experiences, while improved response times and higher booking conversion rates ensure Botalyze delivers measurable ROI from day one.

**What our clients say**

Trusted by restaurants and hotels worldwide.

<b>*****</b> "Our bookings increased within weeks." <b>Hotel Manager</b>	<b>*****</b> "AI that actually drives revenue." <b>Hospitality Group</b>	<b>*****</b> "Professional and seamless setup." <b>Café Chain</b>	<b>*****</b> "We stopped Restaurant C because of you." <b>Restaurant C</b>
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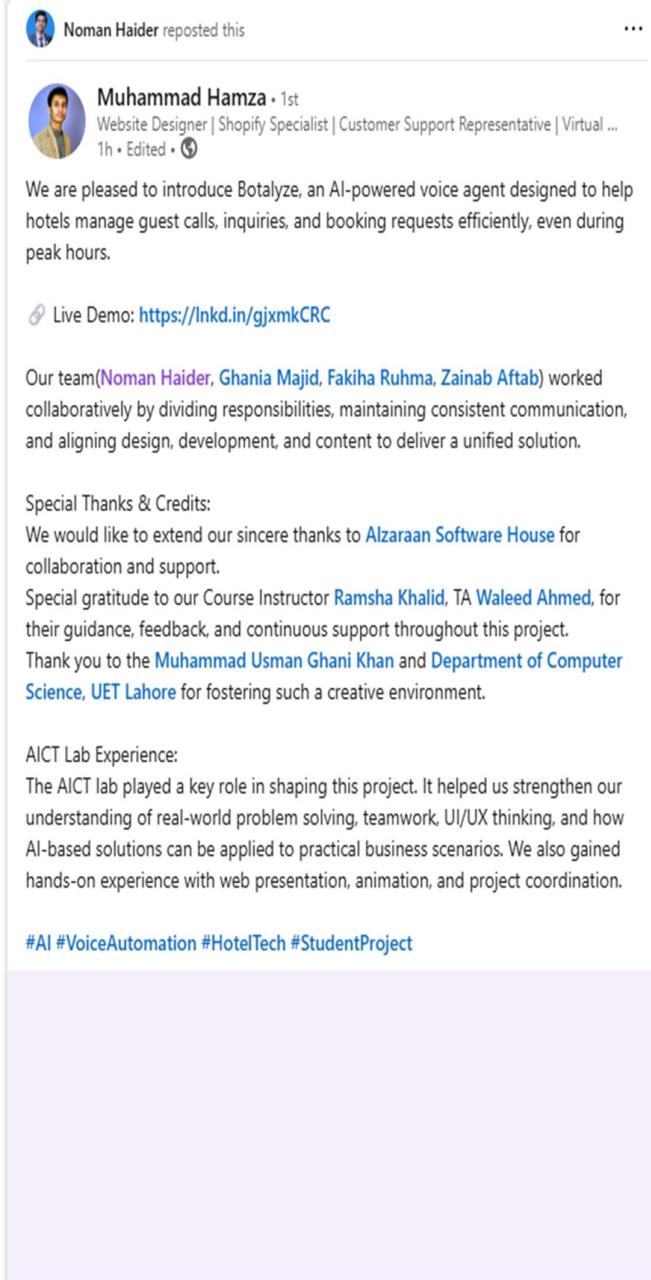
### Conclusion

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This experience not only enhanced our understanding of web development, business analysis, and design principles but also honed our professional and interpersonal skills. We learned to translate technical AI concepts into business benefits that resonate with hotel managers, and we gained hands-on experience in connecting visual design, data analysis, and written documentation into one cohesive project.

The project demonstrated that successful web development requires more than just coding skills, it demands understanding the target audience, presenting data convincingly, and working as a coordinated team. This foundation will be invaluable for future projects in both academic and professional settings.

## 5. Linked In ScreenShots:



Noman Haider reposted this

Muhammad Hamza • 1st  
Website Designer | Shopify Specialist | Customer Support Representative | Virtual ...  
1h • Edited •

We are pleased to introduce Botalyze, an AI-powered voice agent designed to help hotels manage guest calls, inquiries, and booking requests efficiently, even during peak hours.

🔗 Live Demo: <https://lnkd.in/gjxmkCRC>

Our team([Noman Haider](#), [Ghania Majid](#), [Fakiha Ruhma](#), [Zainab Aftab](#)) worked collaboratively by dividing responsibilities, maintaining consistent communication, and aligning design, development, and content to deliver a unified solution.

Special Thanks & Credits:  
We would like to extend our sincere thanks to [Alzaraan Software House](#) for collaboration and support.  
Special gratitude to our Course Instructor [Ramsha Khalid](#), TA [Waleed Ahmed](#), for their guidance, feedback, and continuous support throughout this project.  
Thank you to the [Muhammad Usman Ghani Khan](#) and [Department of Computer Science, UET Lahore](#) for fostering such a creative environment.

AICT Lab Experience:  
The AICT lab played a key role in shaping this project. It helped us strengthen our understanding of real-world problem solving, teamwork, UI/UX thinking, and how AI-based solutions can be applied to practical business scenarios. We also gained hands-on experience with web presentation, animation, and project coordination.

#AI #VoiceAutomation #HotelTech #StudentProject

**Ghania Majid** • You  
now •

**Botalyze | AI-Powered Voice Agent for Hotels**

We are pleased to introduce Botalyze, an AI-powered voice agent designed to help hotels manage guest calls, inquiries, and booking requests efficiently, even during peak hours.

Live Demo: <https://lnkd.in/d4USDh6r>  
Github: <https://lnkd.in/d9uPhw28>

Our team (Ghania Majid, Zainab Aftab, Fakihah Ruhma, Muhammad Hamza, Noman Haider) worked collaboratively by dividing responsibilities, maintaining consistent communication, and aligning design, development, and content to deliver a unified solution.

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#AI #VoiceAutomation #HotelTech #StudentProject #AICT

**Muhammad Hamza** • You  
Website Designer | Shopify Specialist | Customer Support Representative | Virt...  
45m • Edited •

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#AI #VoiceAutomation #HotelTech #StudentProject

Hotels received dozens of calls every day.  
Missed calls,

**Fakihah Ruhma** • You  
Student at University of Engineering and Technology...  
10m • Edited •

We are pleased to introduce Botalyze, an AI-powered voice agent designed to help hotels manage guest calls, inquiries, and booking requests efficiently, even during peak hours.

Live Demo: <https://lnkd.in/eAHVBjTH>

Our team (**Fakihah Ruhma** **Muhammad Hamza** **Zainab Aftab** **Noman Haider** **Ghania Majid**) worked collaboratively by dividing responsibilities, maintaining consistent communication, and aligning design, development, and content to deliver a unified solution.

**Special Thanks & Credits:**  
We would like to extend our sincere thanks to [Alzaraan Software House](#) for collaboration and support.  
Special gratitude to our Course Instructor Ramsha Khalid TA [Waleed Ahmed], for their guidance, feedback, and continuous support throughout this project.  
Thank you to the [Department of Computer Science, UET Lahore](#) for fostering such a creative environment.

**AICT Lab Experience:**  
The AICT lab played a key role in shaping this project. It helped us strengthen our understanding of real-world problem solving, teamwork, UI/UX thinking.

**Zainab Aftab** • You  
Student at Kinnaird College for Women (KCW), Lahore - Pak...  
1h •

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Github: <https://lnkd.in/drtJ3NM>

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#AI #VoiceAutomation #HotelTech #StudentProject