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BREEZ

AI at Your Service

"Say Hello to BREEZ"

- Reduce labor costs by **10X**
- **30-second** checkouts
- **Conversational AI**

Challenges

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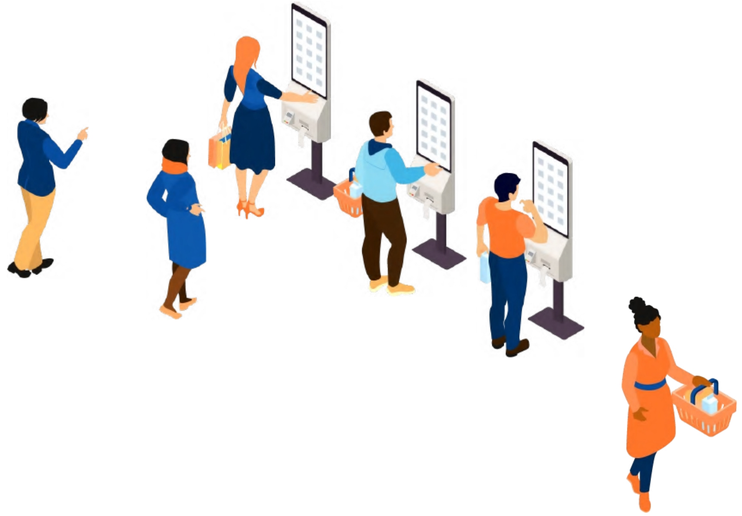
Sub-par checkout service due to **Skilled labor shortage** leads to **severely reduced profits**, **slower business growth**, and **customer frustration**.

Key Points of the problem we're trying to solve:

- **63%** of shoppers believe AI can help them save time and money (Gartner)
- **48%** of restaurants face rising labor costs, resulting in layoffs (Restaurant Dive)
- **37 billion** hours wasted by Americans waiting in shopping queues (Waitwhile)
- **86%** of customers avoid stores with long queues (Talk Retail)
- **5 minutes** average transaction time at retail counters (APQC)



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The Solution

Breez: The ultimate self-service kiosk **powered by AI**

- **Reduced labor cost:**
  Drastic reduction in the companies expenditure
- **Improves Customer Experience:**
  Conversational **AI** | Facial Recognition
- **Increases Efficiency :**
  30-Second checkouts
- **Order Accuracy and Customization:**
  100% accuracy | Gamified UI/UX
- **Plug & Play with any POS/ Retail system**
  Quick & easy Setup | Universal POS Compatibility

AI POWERED
FACE SCAN
RFID TECH
PLUG & PLAY
VOICE ORDER
MULTI-LINGUAL

Technology

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Core Tech Stack:

- **Android**: A versatile platform offering a rich ecosystem for app development, known for its scalability and diverse user base.
- **Node.js**: Real-time server-side operations.
- **Python**: Powers machine learning and advanced data processing.

Advanced Language Models:

- **LLMs & GPT**: Enhance voice command accuracy, understand complex queries, and ensure efficient user interactions.
- Integration via Python's LangChain.

Infrastructure & Scalability:

- Hosted on **AWS EC2** server for robustness and scalability.
- Containerisation with Docker and AWS CodePipeline ensures consistent deployment.

Front-end Development(Android)

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Tech & Design:

- **Platform**: Android developed in MVVM/Coroutine/Kotlin.
- Emphasis on large, touch-friendly buttons and high-contrast design for optimal kiosk interaction.

Voice & Interaction:

- Integration with Google Speech-to-Text API and Google Speech Recognition.
- Features like swipe-to-browse and tap-to-select for an intuitive user experience.

Feedback & Responsiveness:

- Smooth animations and transitions for a premium user feel.
- Haptic feedback and voice confirmation enhance user confidence in selections

Back-end Development

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This backend system allows us to create and manage real-time LLMs that are tailored to the specific needs of each store and its customers.

- Real-time API to train and update LLMs store-wise and content-wise.
- Dynamically updates LLMs to reflect changes in store inventory and promotions.
- Keeps a session for each customer to track their progress and preferences.

A Node.js backend is used to create a store, upload images of items to the store, and upload prices for those items. This can be done by using a variety of Node.js modules, including:

- **Express:** A swift web framework for Node.js, Express simplifies API creation, routing, and HTTP request/response handling.
- **MongoDB:** A versatile NoSQL database storing data in JSON-like format. It's ideal for creating collections like Products with attributes such as name, description, and image paths.
- **React:** A JavaScript library for crafting user interfaces. In the store application, React displays products, manages image uploads, and uses AJAX for data interaction.
- **Image Hosting Services:** Rather than direct database storage, cloud services like AWS S3 offer efficient image hosting, providing URLs for easy frontend retrieval.

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Got Questions?

LET'S CONNECT!

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