MICHIGAN STATE UNIVERSITY Beta Presentation Al-Based Chat Service The Capstone Experience

#### Team RPM

Ishak Ahmed Leeann Alsaeed Roshan Atluri Andrew Dagostino Ulas Kaygisiz

Department of Computer Science and Engineering Michigan State University Fall 2023

From Students... ...to Professionals

#### **Project Overview**

#### • Problem:

- High call volumes
- Slow tracking responses
- 24/7 on-call representatives
- Solution
  - Al chatbot
  - Back-end service (Web, SMS, App, etc.)
- Value:
  - Enhance customer service
  - Reduce cost
  - Provide instant answers

# System Architecture



The Capstone Experience

# **Customer Questions**

RPM Chatbot × +		
⑦ ① 127.0.0,1:8080		Guest
	Rem	
	Request Live Assistance Switch to SMS	
aved Conversations	what is the delivery location of shipment 606671?	
hipment 606671 Pickup Location	The delivery location of shipment	
nipment 606661 delivery date	606671 is 2100 Woodward Avenue, Detroit, MI.	
Clear ALL conversations	what about the pickup location?	
	The pickup location of shipment 606671 is 233 South Wacker Drive, Chicago, IL.	
	what's the delivery date?	
	The delivery date for shipment 606671 is November 28, 2023.	
	Type your message here	
	Sand Clear Conversation	

# Switching to a Representative

● RPM Charloot x + ← → C ◎ 127.0.0.1:8080		127.0.0.1:8080 says To connect you with a call representative, please enter your phone number in the format: 1(xxx)xxx-xxxx	
	Request Live Assistances Switch to SMS	1(517)989-0667 Cancel OK	
Saved Conversations Shipment 606661 delivery date	what is the delivery location of shipment 6088717 The delivery location of shipment 606671 is 2100 Woodward Avenue in Detroit, ML	N nealatluri9@gmail.com 7:58 PM User Chatlog To: leeannalsaeed2001@gmail.com	
Clear ALL conversations	I would like to change the location   To change the delivery location of your shipment, please click on the Request Live Assistance' button to connect with a representative who can assist you further. They will be location and any other changes you may need for your shipment.   Type your message tere   Bend Cour Conventation   Sever a Convolution	Customer ID: 12345 Phone Number: 1(517)989-0667 Summary: The customer inquired about the delivery location of shipment 606671. The chatbot provided the current delivery location as 2100 Woodward Avenue in Detroit, MI. The customer expressed the desire to change the location and requested assistance. The chatbot suggested clicking on the 'Request Live Assistance' button to connect with a representative who can help with modifying the delivery location and any other necessary changes for the shipment.	

# Scheduling a Shipment



Team RPM Beta Presentation

# **General Inquiries**

RPM Chatbot × +		
→ C ⊕ 127.0.0.1:8080		Guest
	💥 Rəm	
	Request Live Assistance Switch to SMS	
	Can I have personal items in my	
aved Conversations	car?	
nipment 606671 Pickup Location	What is the make and model of your vehicle?	
hipment 606661 delivery date		
Clear ALL conversations	Thave Ford F-150	
	Because you have a truck, you can have personal items in your	
	vehicle.	
	Type your message here	
	Send Clear Conversation	
	Save a Convo	

#### What's left to do?

- Stretch Goals
  - Live chat with representative
  - Weather information at pickup/delivery location
- Other Tasks
  - Update UI
  - Re-do Turvo API
  - Chat consistency
  - Saved conversation deletion
  - Improving chat response time
  - Bug fixes

#### **Questions?**



The Capstone Experience