# Pitch Deck Domain 3

BY MANNERLESS

#### Problem

#### Problem 1

Inability to identify sales trends and potential opportunities at a given time

#### Problem 2

Unable to obtain professional guidance to improve competitiveness

#### Solution 1

Provide valuable business insights for merchant

#### Solution 2

Suggest personalized recommendations for improvements and opportunities

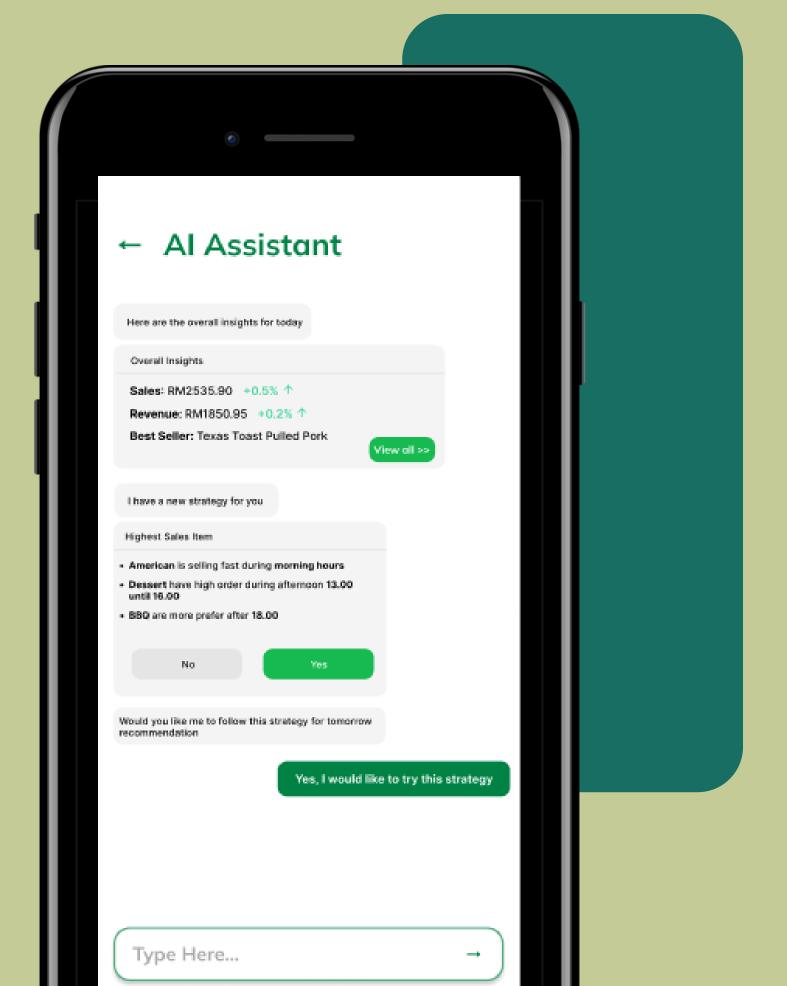
#### Solution 3

Identify the sales trends and operational bottlenecks

## The Utopia

# Product or Service

Create a chat-based assistant for merchants that is able to address the bottlenecks face by merchants by leveraging the uses of Al to gain guidance in their business.



## Main Feature



Recommendation of hot sale item

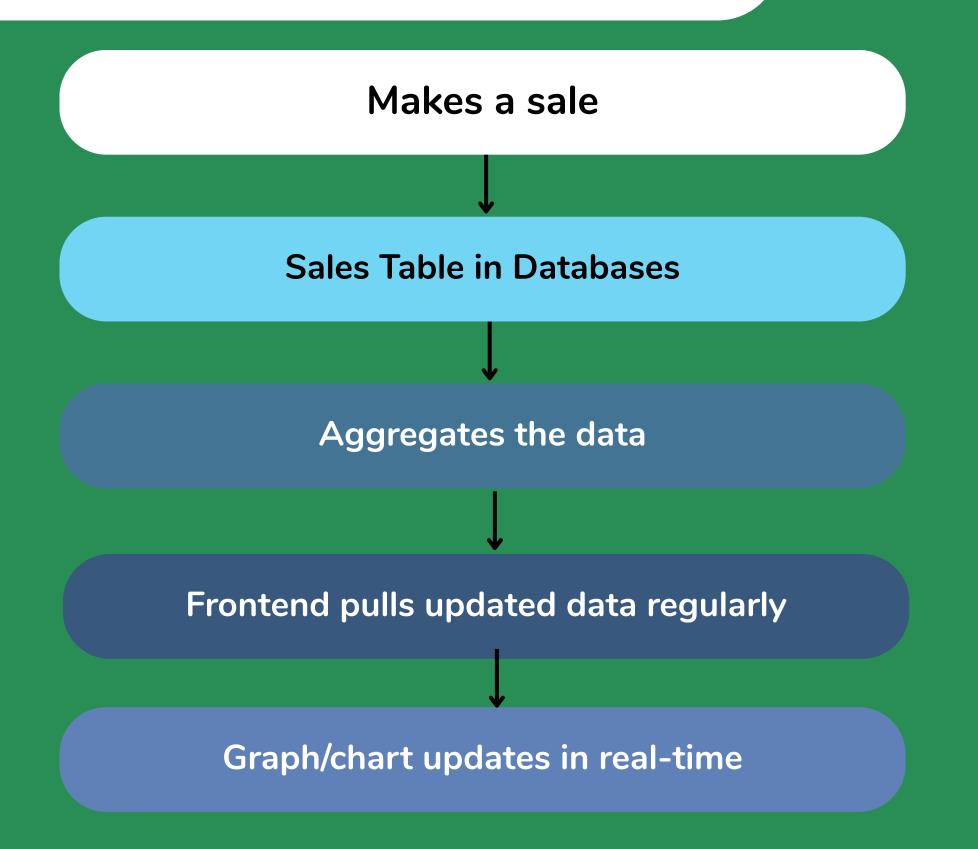


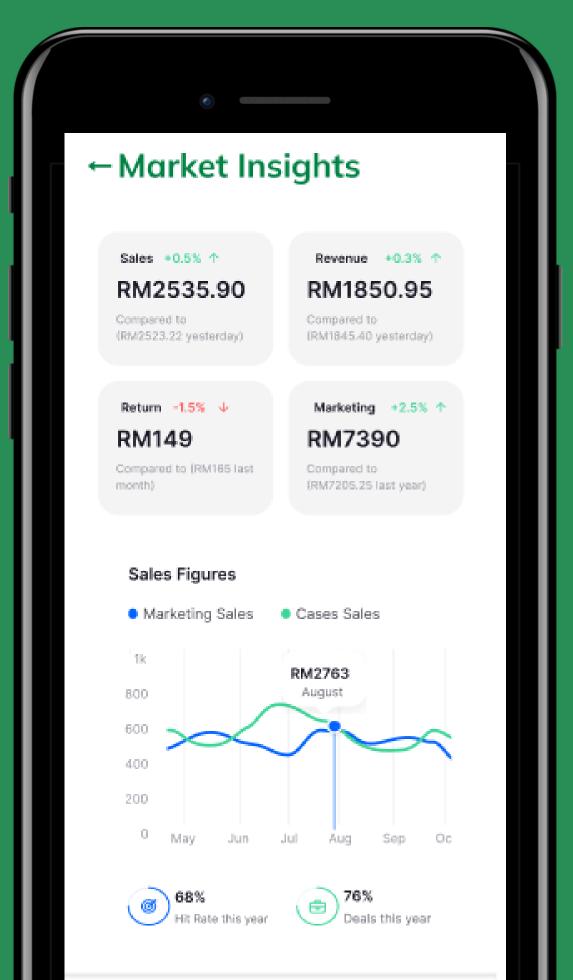
Auto generated product



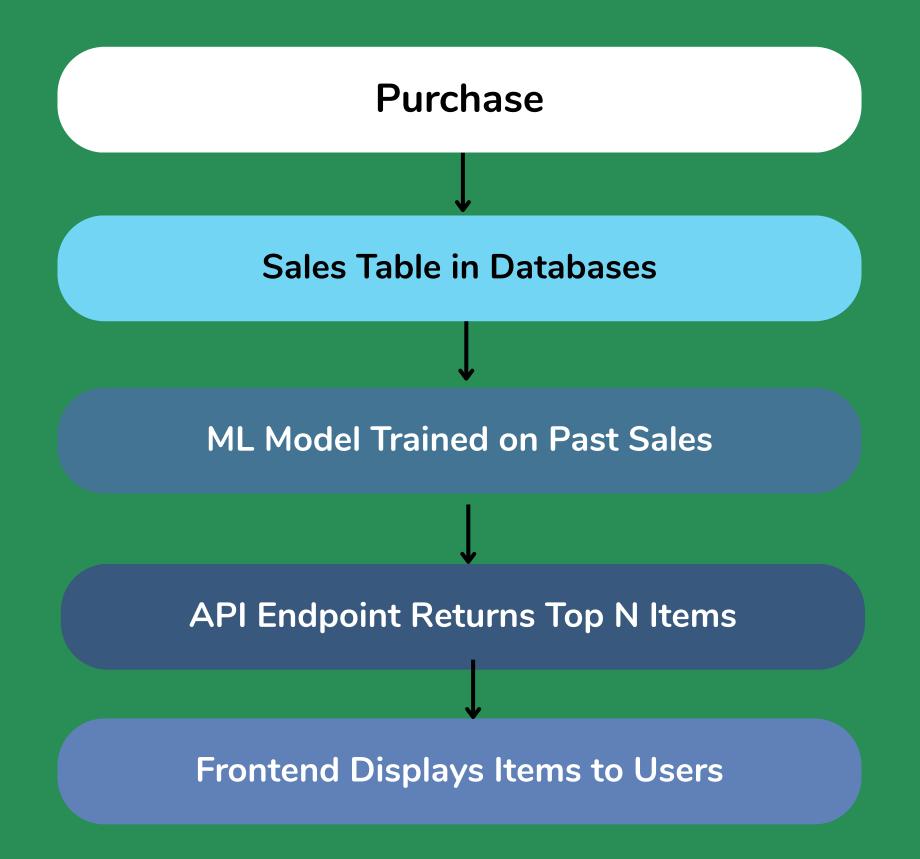
Graphical real-time report

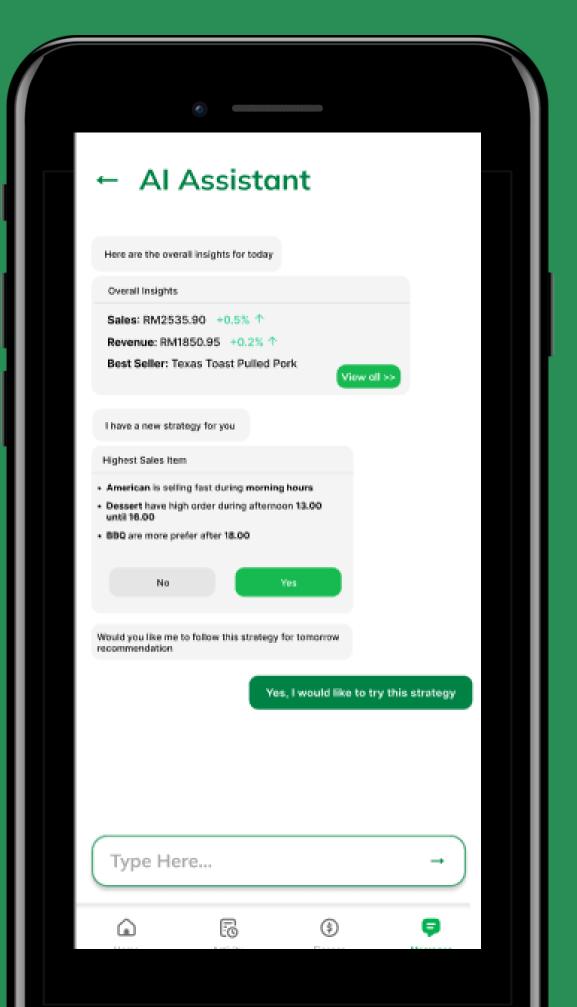
#### Graphical real-time report



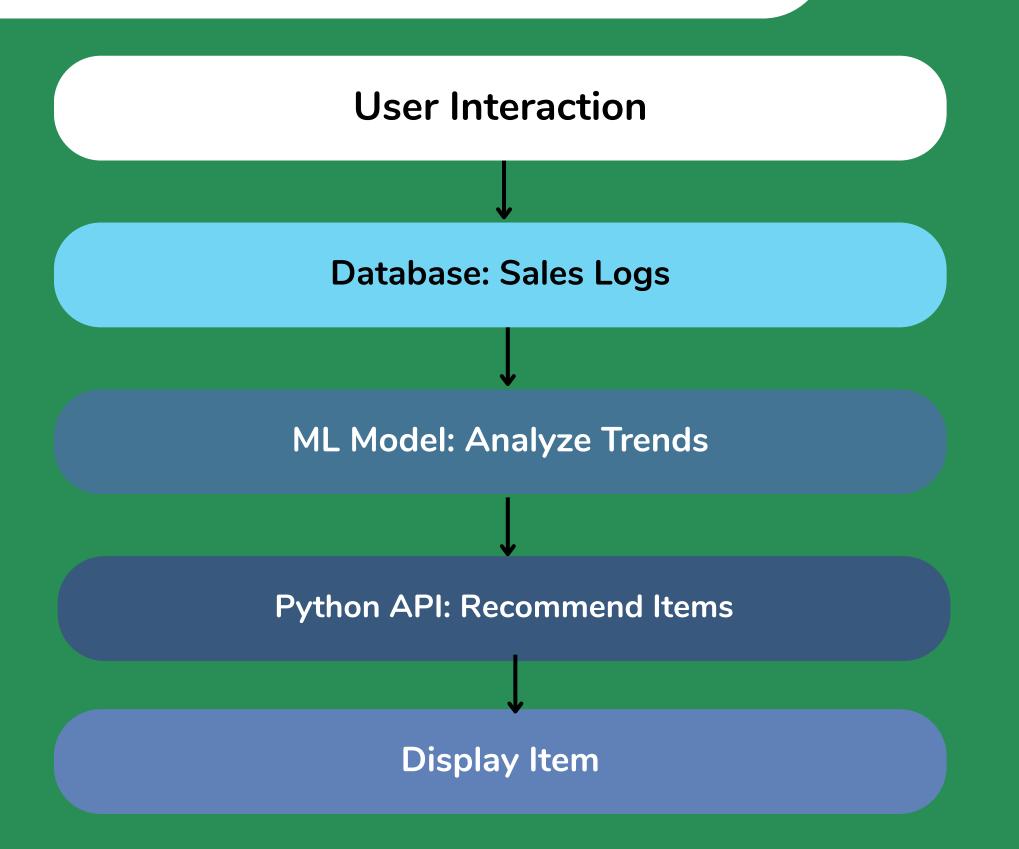


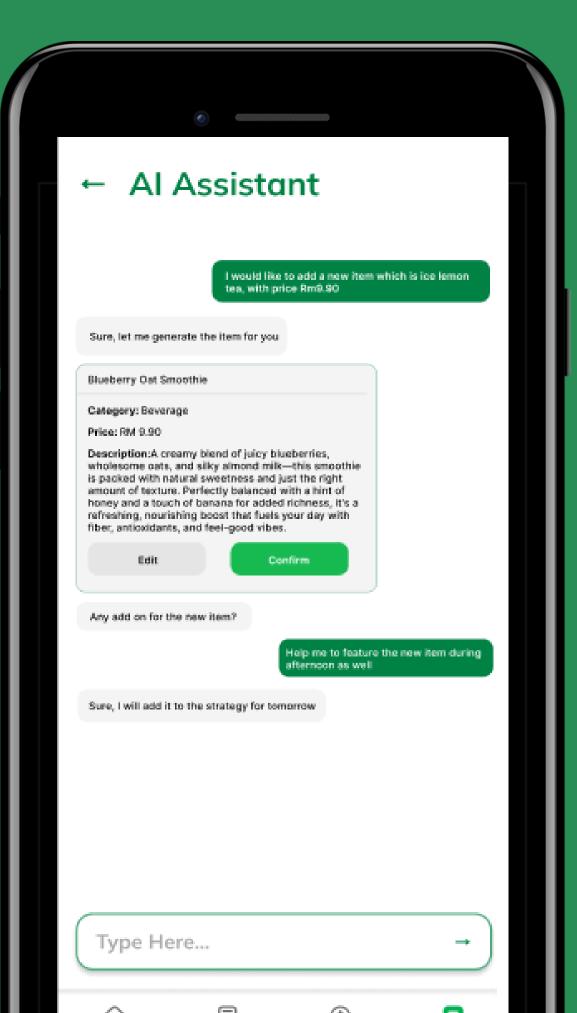
#### Recommendation of hot sale item





#### Auto generated product





Classification

Binary

**XGBoost** 

## Machine Learning Model

Prediction on boosting the hot sale item in the area per 3 hours

### Architecture Overview

#### System has 4 key layers:

- Data Collection Layer
- Data Storage Layer
- ML Processing Layer
- API & Deployment Layer

#### **Data Collection Layer**

- Transaction Data
- Merchant Metadata
- City-wide Trends

# Processing & Machine Training Layer

- Feature Engineering
- Machine Learning Models

#### Data Storage Layer

- PostgreSQL
- Pandas / Dask

#### **API and Deployment Layer**

- FastAPI / Flask
- Docker / Kubernetes
- Dashboard Integration

#### Personalization Strategies

#### Time-Based Personalization

- Granular 3-Hour Time Block
- Learning Temporal Patterns per Item
- Merchant-Specific Insights
- Trend Adaption Over Time

#### Location-Based Recommendations

- City-Level Analysis
- Delivery Zone Adaption
- Regional Hot-Seller Suggestions
- Flexible Local Context

# System Integration Workflow

- Figma (frontend design)
- HTML page
- FastAPI
- Machine Learning Model

# Competitive Advantage

#### Advantage 1

Assisting merchants to understand their business insight.

#### Advantage 2

Provide suitable recommendation for merchants to boost sales of business.

# Competitive Advantage

#### Advantage 3

Helping merchants to discover many more possibilities.

#### Advantage 4

Allow merchants to be able to handle the diverse multilingual interactions.

# Expected Impact

#### Impact 1

Assist merchants in obtaining valuable information related to the business

#### Impact 2

Allowing merchants to understand the level of competitiveness of their product among competitor.

#### CO FEATURES

Smart advice for relevant product

Short form and mix languages interpreter

#### FUTURE ENHANCEMENT





Improve model with NLP or deep learning



Add trending hashtags or tags



Integrate push notifications or banners

# THANK YOU!