

# Nile Company Limited

Proposal Presentation  
2 December 2024



# Agenda

**1.** Project Outline

**2.** Project Approach

**3.** Deliverable Walkthrough

# 1. Project Outline

## **Business Objective**

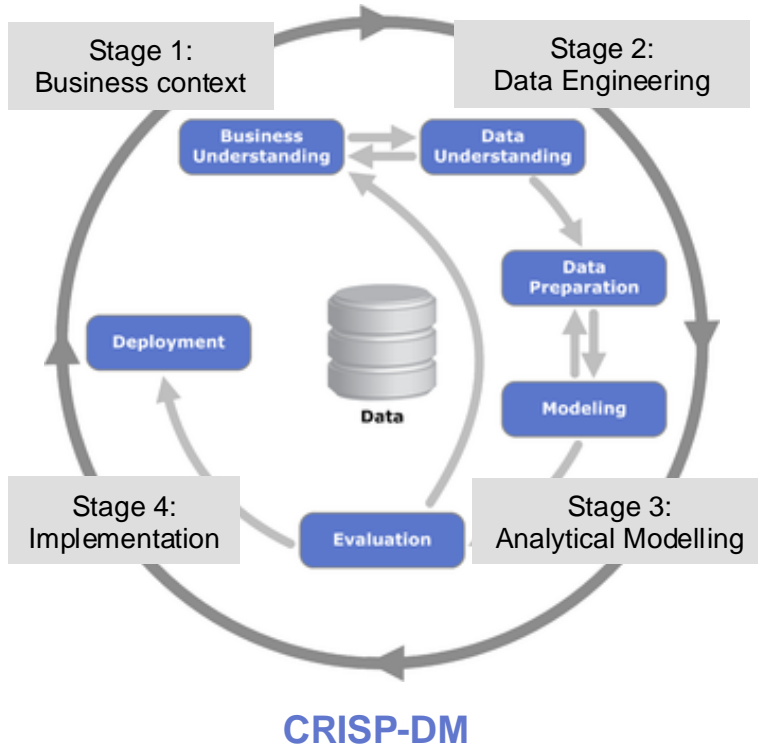
- Develop a Predictive Model
- Strategic Customer Targeting
- Resource Efficiency
- Reinforce Online Reputation
- Sustainable Solution



## **Benefits to Nile:**

- Enhanced Customer Engagement
- Improved Online Reputation
- Competitive Edge
- Resource Optimization
- Informed Decision-Making
- Revenue Growth

## 2. Project Approach



### Our proposed solutions

1

#### Business Understanding

- Understand nature of business and industry
- Analyse potential improvement initiatives to create value-added throughout the value chain

2

#### Data Engineering

- Data Understanding: Review current data structure and details
- Data Preparation: Acquire, validate, and clean data to ensure the accuracy

3

#### Analytical Modelling

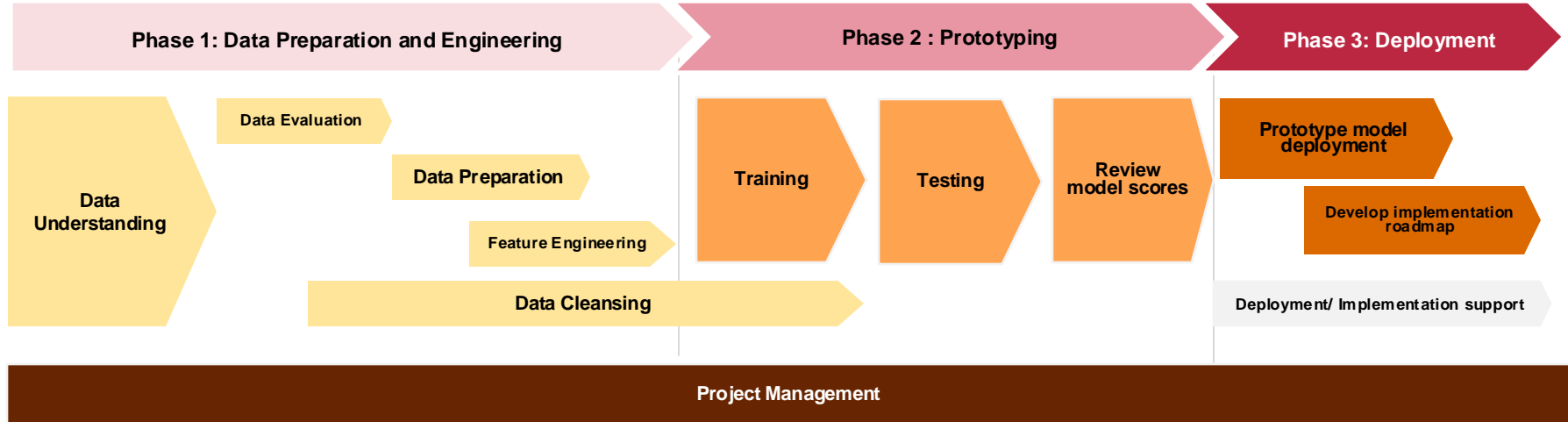
- Modelling: Develop a review prediction model utilising existing data
- Evaluation: Validate and verify outcome of the model

4

#### Implementation

- Prepare to deploy the model
- Ensure capability and accuracy of the outcome of the model

### 3. Deliverable Walkthrough



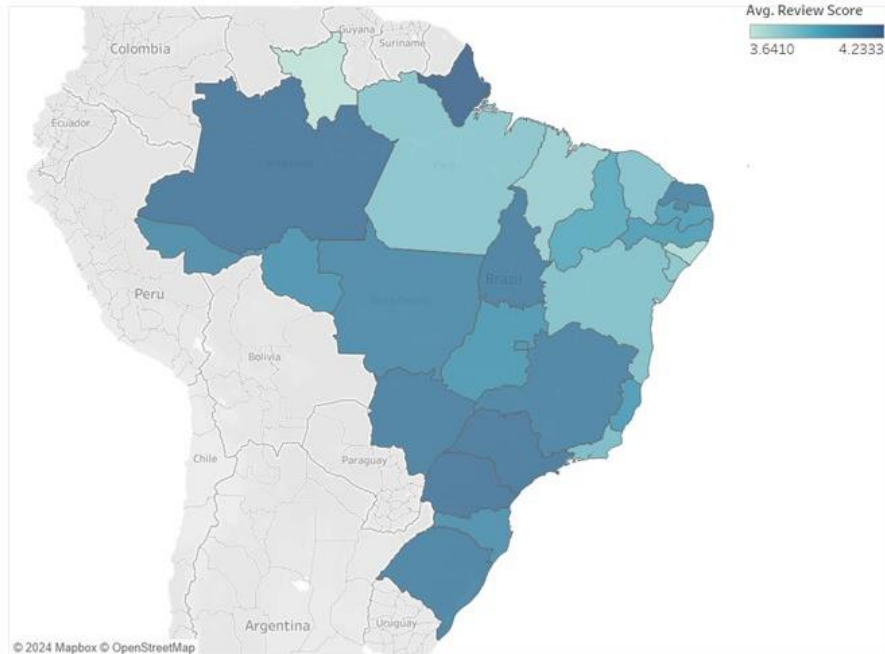
#### Project Assumption

- Negative reviews : 3 and Below
- Positive Reviews : 4 and 5

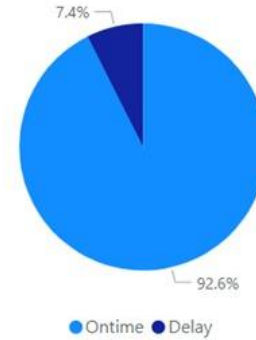
## Nile Analytics

Period	Number of Cust.	Number of Seller	Number of Orders
All	84.93K	2963	87.59K

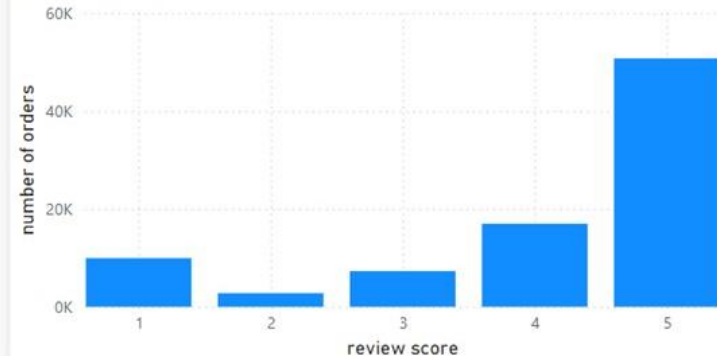
### Demographic



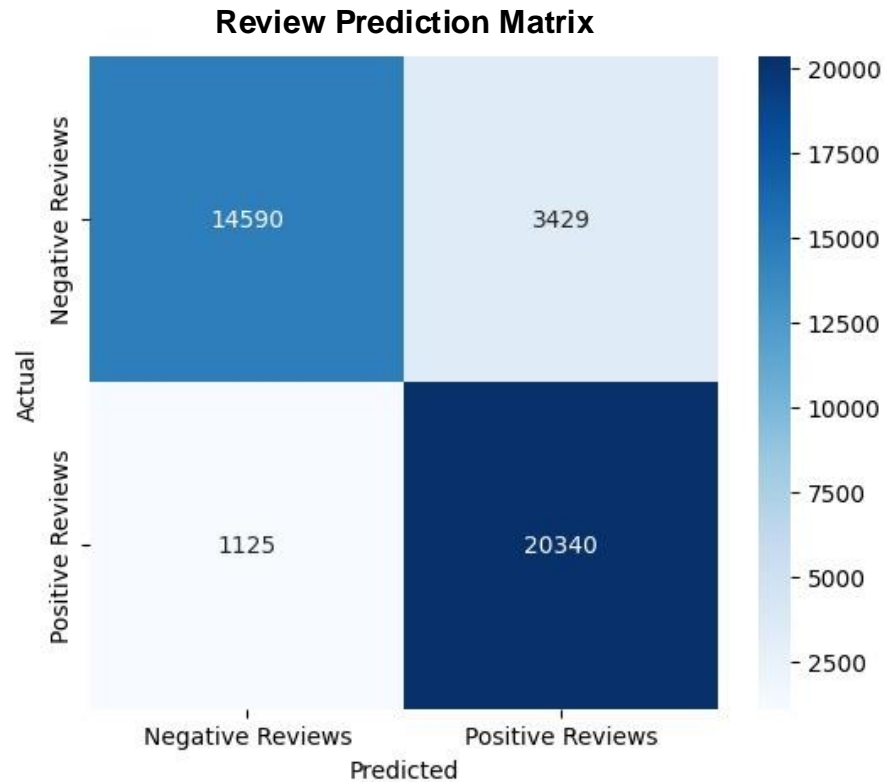
### Delivery Status



### Review Score



## Phase 2 - Evaluation and Prototype (1/2)



Our model can predict whether a customer is likely to leave a positive review, with an accuracy of

**94%**

## Phase 2 - Evaluation and Prototype (2/2)

### Nile eCommerce Review Prediction App

Predict whether a customer will leave a positive review.

Price (\$)

125.00 - +

Freight Value (\$)

35.00 - +

Product Weight (grams)

34 - +

Payment Value (\$)

67.00 - +

Product Volume (cm³)

3500 - +

Delivery Duration (days)

7 - +

Estimated Delivery Days

7 - +

On-time Delivery (1 for yes, 0 for no)

1 - +

Order Delay (days)

0 - +

Review Length (characters)

0 - +

Total Orders by Customer

1 - +

Customer State

SP ▼

Order Status

delivered ▼

Payment Type

credit\_card ▼

Seller State

RS ▼

Product Category

Entertainment ▼

Is there a Review?

yes ▼

**Predict Review**

Predicted Review Sentiment: Positive

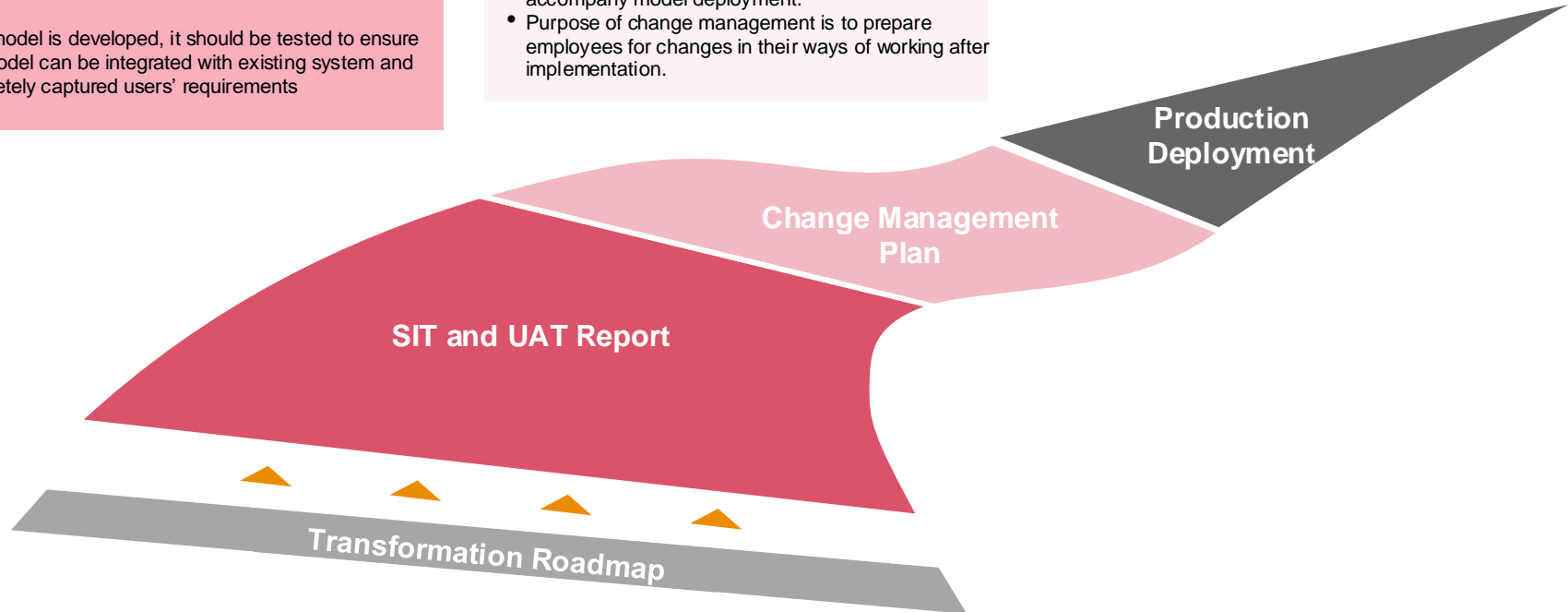


## Phase 3: Deployment & Future works.

After model is developed, it should be tested to ensure that model can be integrated with existing system and completely captured users' requirements

- Change management plan should be developed to accompany model deployment.
- Purpose of change management is to prepare employees for changes in their ways of working after implementation.

Execute the deployment of the model, ensuring alignment with operational workflows and thorough performance monitoring.



*Thank You*