

The background of the slide features a high-angle, aerial photograph of a dense urban skyline, likely New York City, with numerous skyscrapers and buildings. A large, dark blue diagonal shape cuts across the image from the top-left towards the bottom-right, creating a modern, geometric design. The text is overlaid on the dark blue portion of the image.

Team – LockNCode

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CUSTOMER CHURN PREDICTION

Problem Statement: "Develop a machine learning model that predicts customer churn for a subscription service. The model should analyze user behavior patterns, demographics, and engagement metrics to identify at-risk customers, enabling proactive retention strategies."

Introduction and Background

- Customer churn refers to when customers stop using a service, leading to revenue loss for companies.
- Predicting churn is critical for subscription-based businesses to improve retention and reduce customer turnover.
- Machine learning models can help identify customers who are at risk of churning by analyzing their behavior and preferences.
- By proactively addressing churn risks, businesses can tailor their strategies to keep customers engaged and satisfied.
- This project focuses on building a churn prediction model that uses customer data to forecast churn and provide actionable insights.

Solution

- The project involves building a machine learning model to predict customer churn based on various features related to user behavior and preferences.
- The model will take inputs such as account age, monthly charges, content preferences, and support history to forecast churn risk.
- The front-end will include visualization plots that highlight trends and insights to help the company understand the root causes of churn.
- An interactive chatbot will provide suggestions to the company, offering recommendations to reduce churn and align services with customer needs.
- This comprehensive solution allows companies to take proactive steps to retain customers and prevent churn.



TECHSTACK

React JS

NEXT JS

TailwindCSS

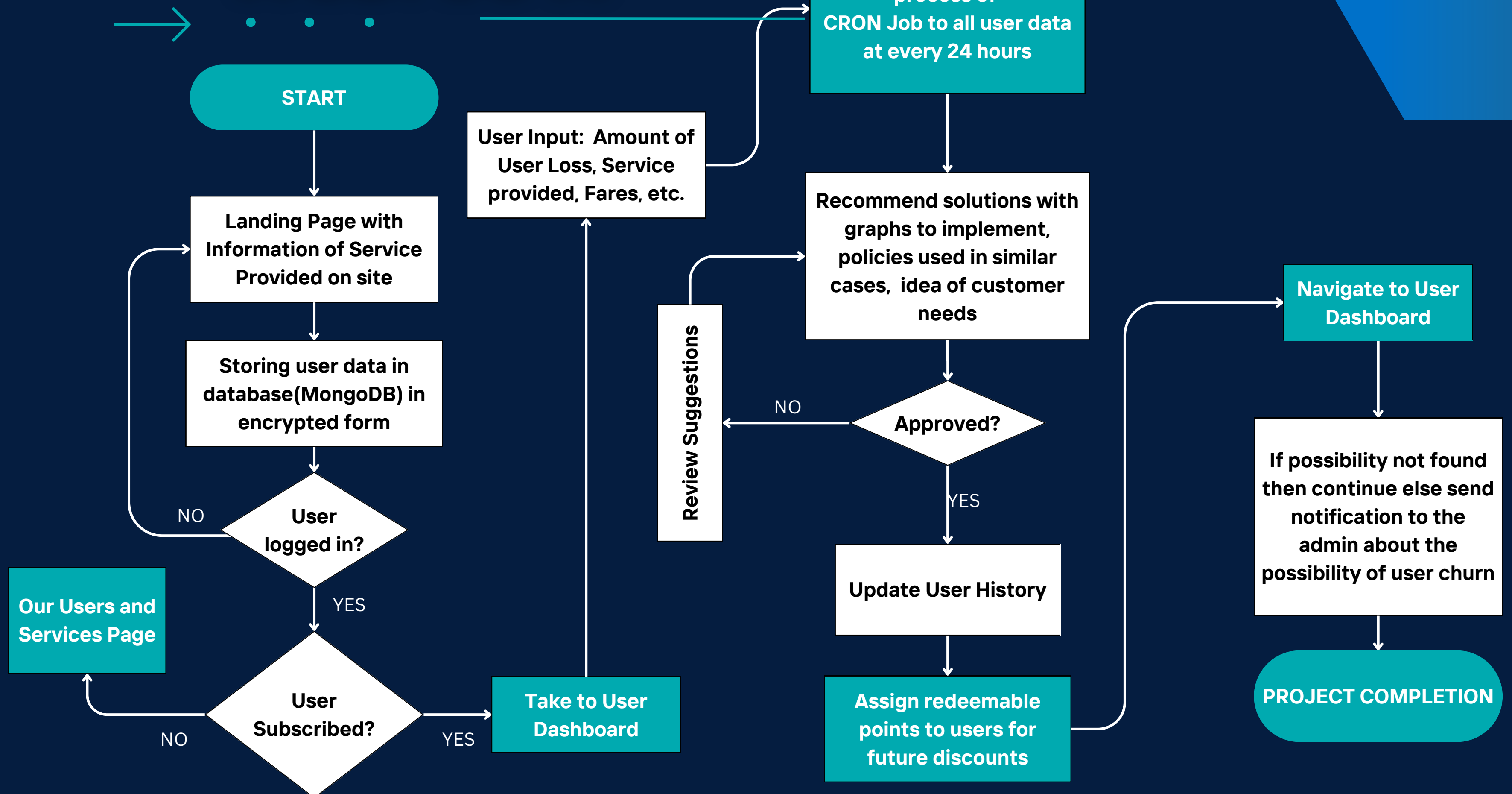
TensorFlow

Neural Networks

Random Forest

Ensemble Learning Techniques

WEBFLOW



Impact

- Large-scale companies stand to retain more customers by accurately predicting churn and addressing the factors that lead to customer dissatisfaction.
- Proactive retention strategies reduce customer acquisition costs and improve long-term profitability.
- By addressing user pain points, companies can increase customer satisfaction, reducing churn and driving revenue growth.
- The visual analytics dashboard and chatbot provide valuable insights that enable companies to optimize their services and tailor offerings to customer needs.
- Preventing churn at scale ensures continued growth, maximizing profits and securing a loyal customer base.