

USER ENGAGEMENT ANALYSIS FOR TECH APPLICATION

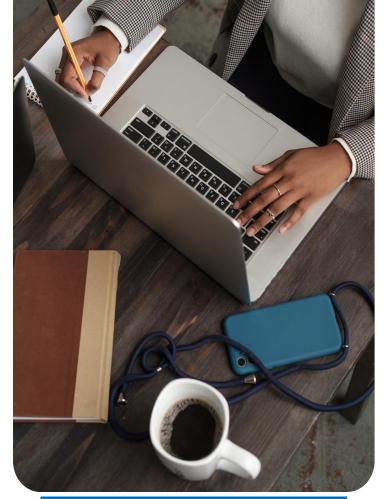
Project Name: Synapcore

Date: January, 2025

COMPANY INTRODUCTION

Synaptix Digital Solutions offers innovative solutions that propel businesses toward the digital frontier.

With automated processes and advanced analytics, they empower your journey through the digital landscape.

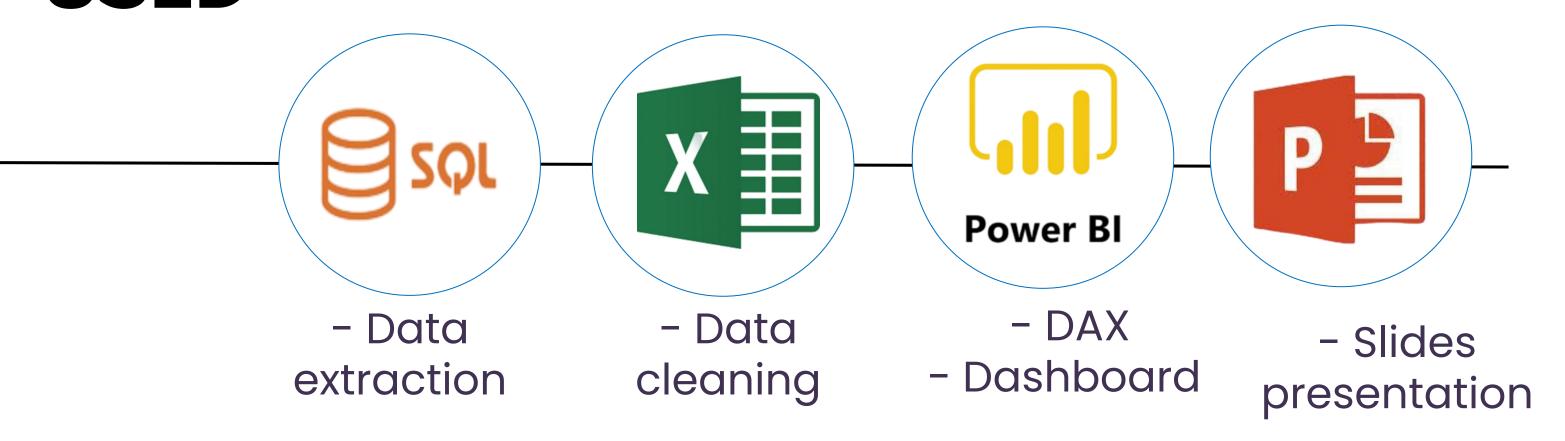




PROJECT OBJECTIVES

- Identify patterns and trends in user engagement data.
- Develop strategies to increase app usage and user retention.
- Use data-driven insights to improve user experience.

Tools USED



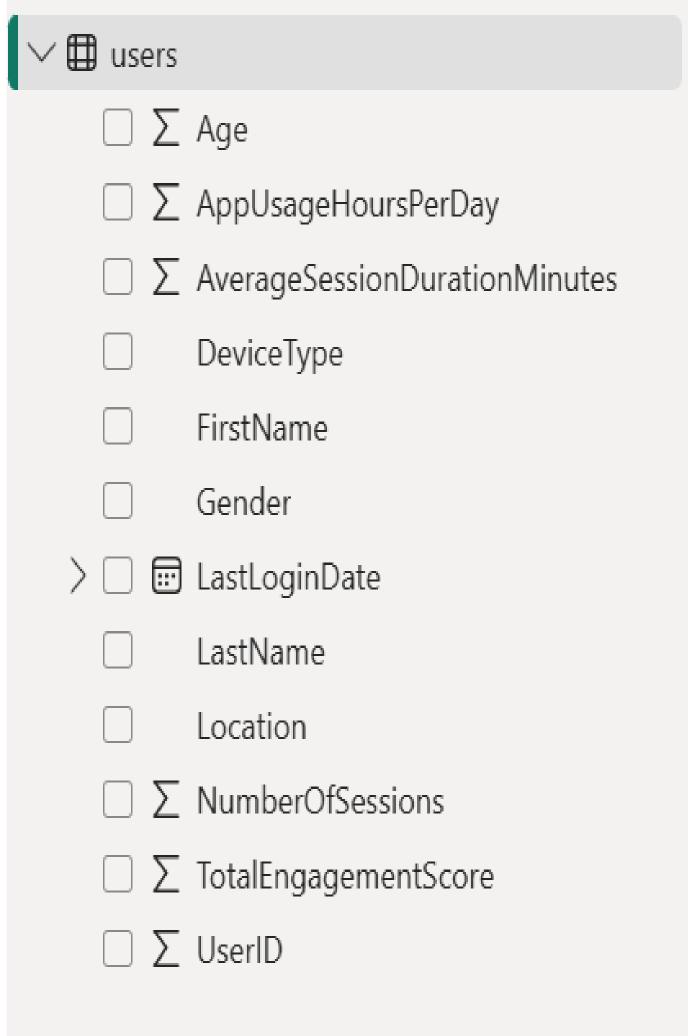
KEY

OBSERVATIONS

The data appears to be clean with:

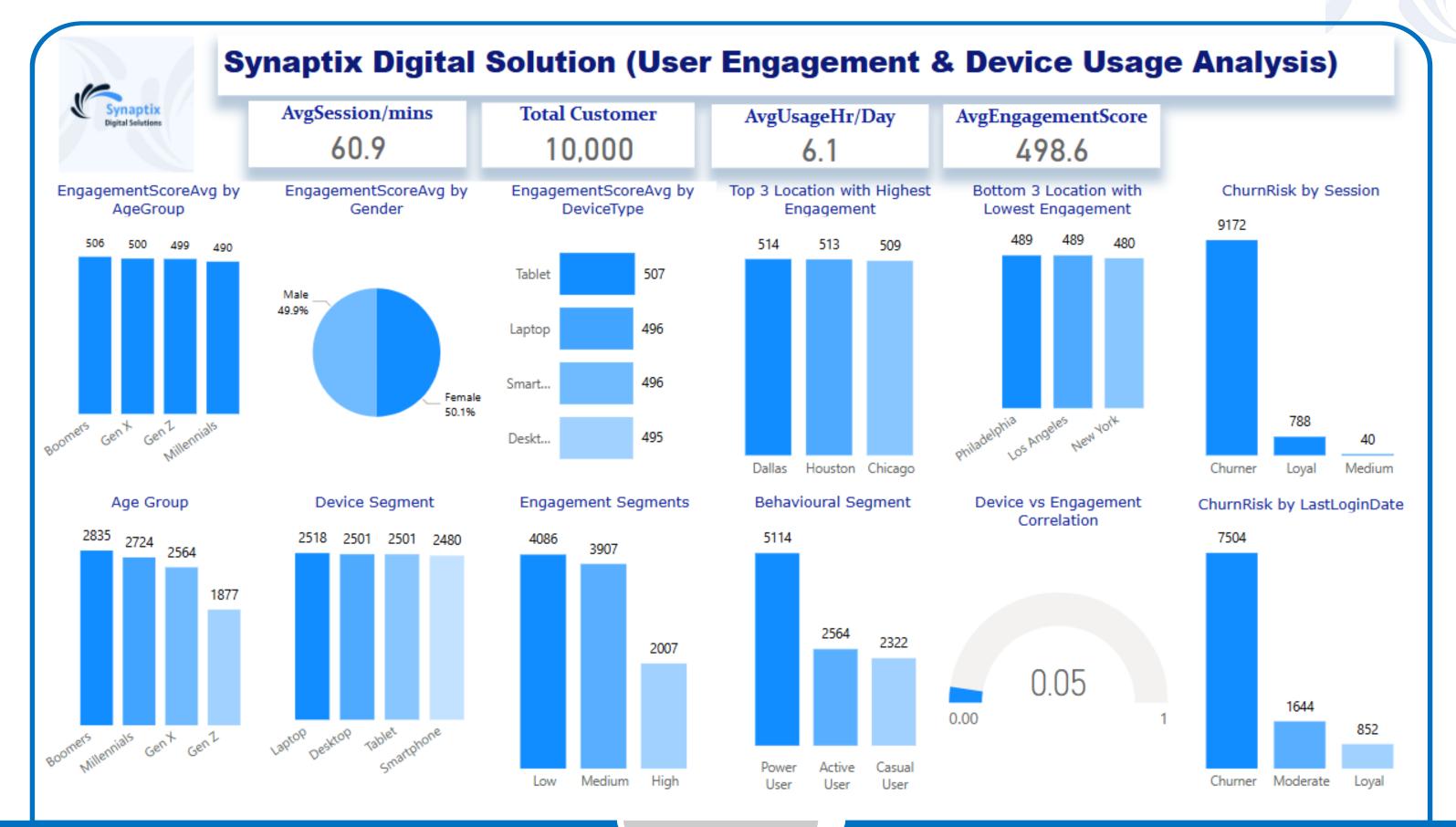
- No missing values
- Consistent data types
- No negative values where they shouldn't exist
- Reasonable value ranges
- Consistent date formatting
- Clear categorical values
- No duplicate of data
- No blanks





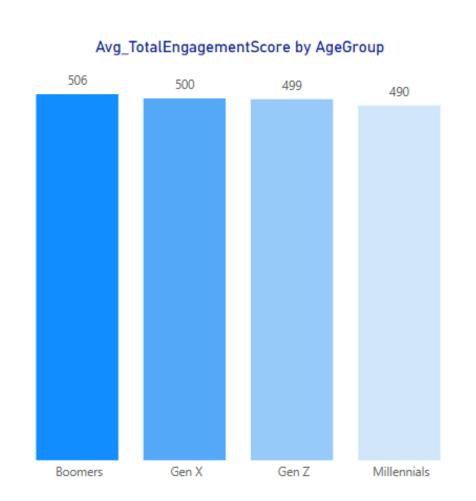
DASHBOARD

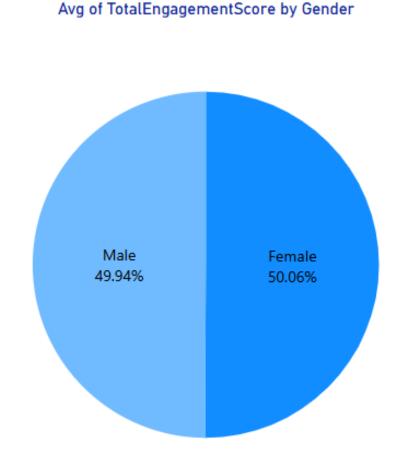


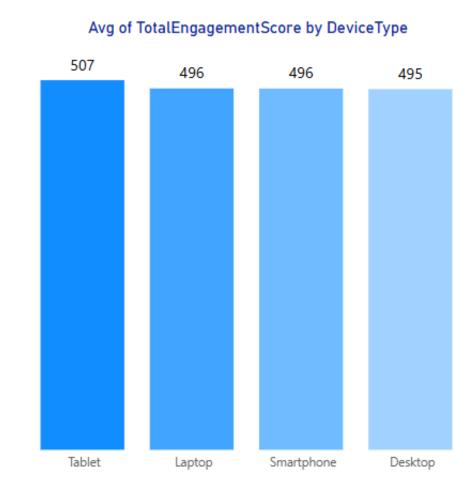


Top-Performing User Segments & Key Characteristics









The highest engagement scores are most common among the following user segments:

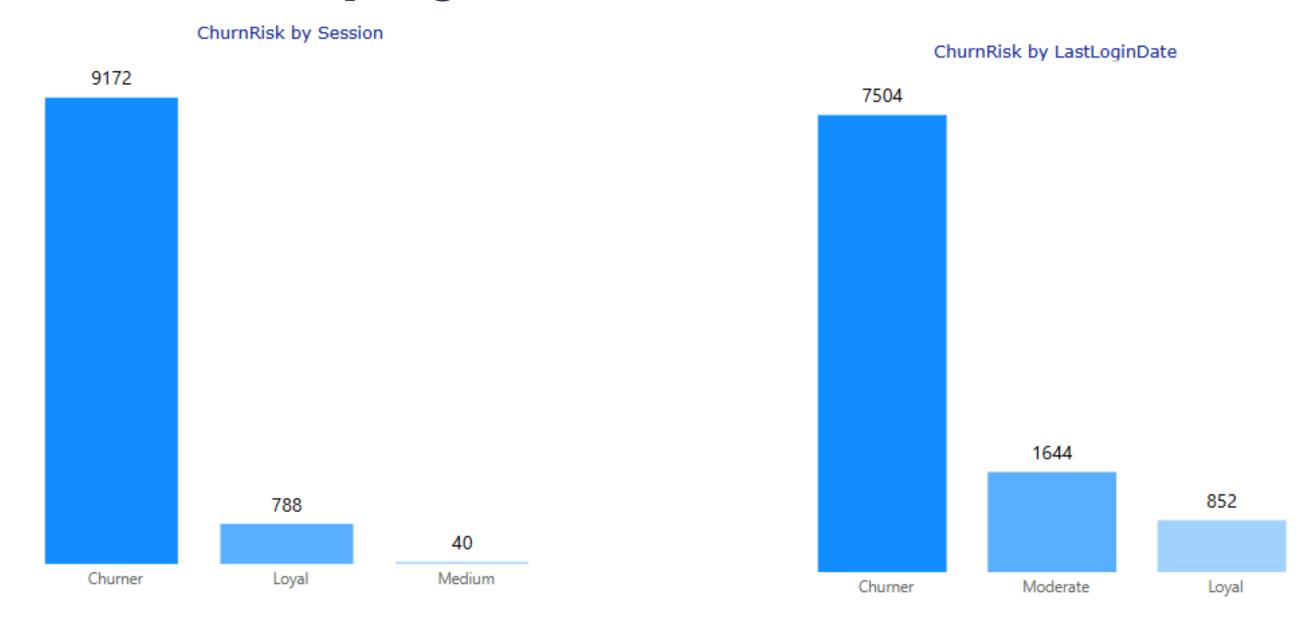
- 1. Boomers (Older Users, Ages 60-75) showed the highest engagement.
- 2. Females slightly engaged more Females had slightly higher engagement than males.
- 3. Device type matters Tablet users exhibited the highest engagement scores.

Common Characteristic: Both user characteristics (age and gender) and technological interaction preferences appear to be influencing engagement.

Female Boomers using tablets had the highest engagement rates.

Identifying Users At-Risk of Churn





- ✓ Loyal: Avg Session Min >= 10 && Days Since Last Login <= 237
 </p>
- Medium: Avg Session Min <= 5 && Days Since Last Login < 252
 </p>
- Churner: Avg Session Min < 5 && Days Since Last Login >= 252

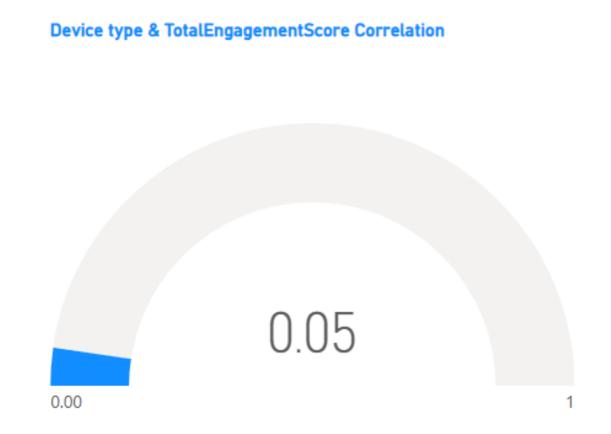
91% of users are at high risk of churn, as their average appusage remains below 5 minutes over a period of more than one and half months, signaling minimal engagement and potential abandonment.

- | ❤️ Loyal: LastLoginDate <= 237 days (30 days)
- Moderate: LastLoginDate <= 297 days (60 days)</p>
- Churner: LastLoginDate >=298 days

75% of customers are at high risk of churn, whereas only 8.5% are classified as loyal users.

Device Type vs. User Engagement



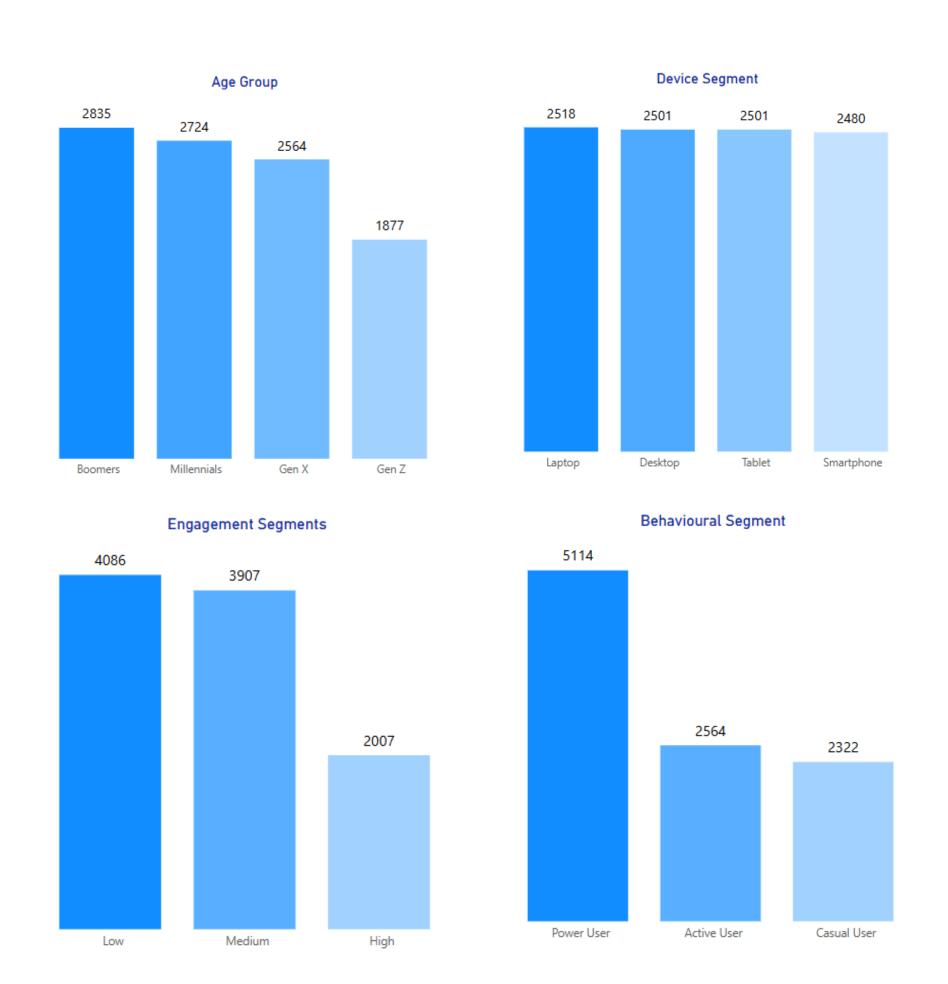


The correlation between **Device Type** (encoded numerically) and **TotalEngagementScore** is approximately 0.05, indicating a very weak or negligible relationship between the two variables.

✓ This implies that the type of device used does not significantly influence the user engagement levels.

Personalized In-App Features for User Engagement





1) Engagement Segments Features:

- ·Simplify user onboarding.
- •Notifications:
- •Activate personalized offers, e.g., Here's a 10% discount for coming back."

2) Age Group e.g. Gen Z (<25)

- ·Features:
- •Interactive content, and social sharing options.
- •Notifications:
- •Fun challenge like "Can you beat your best time today?"

3) Device Type e.g. Smartphone Users

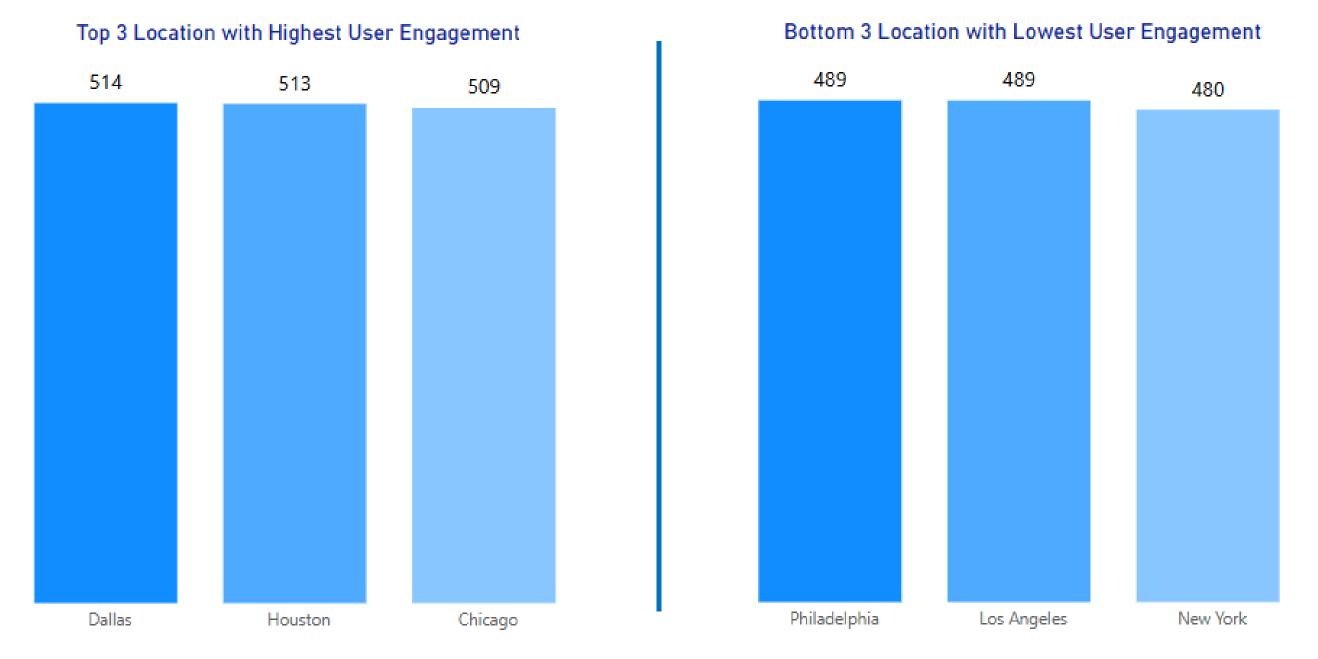
- ·Features:
- •Intuitive design with offline modes.
- ·Notifications:
- Push quick reminders for short tasks or updates.

4) Behavioral Segments e.g. Casual Users

- ·Features:
- •Quick access to the most-used features.
- •Notifications:
- •Gentle re-engagement with value-driven messages.

Top and Least Performing Locations





- With a 513.94 average engagement score, **Dallas** has the highest average engagement score.
- The lowest engagement score (479.91) is in New York.

Here are some recommendations for addressing these disparities:

- Implement location-specific features and content that resonate with local users.
- Replicates Dallas' successful engagement patterns in places like New York.
- Find out whether participation levels are affected by regional factors (such as commuting).

RECOMMENDATIONS



1. Enhance User Retention Strategies:

- Implement personalized push notifications based on user activity.
- Create incentive programs for users at risk of churning.
- Provide re-engagement strategies like exclusive content or discounts for inactive users.

2. Optimize User Experience by Device Type:

- Improve tablet and smartphone UI/UX for a seamless experience.
- Add offline capabilities to cater to mobile users.

3. Targeted Marketing Campaigns:

- Focus on older female users with tablets, as they show the highest engagement.
- Customize messaging for different age and behavioral segments.

4. Regional Customization:

- Implement location-based marketing strategies.
- Study Dallas' engagement model and replicate successful features in low-performing locations like New York.

By leveraging these insights, **Synaptix Digital Solutions** can enhance engagement, reduce churn, and optimize user experiences for tech applications.