

Insights and Recommendations

1. Administrative & Administrative Duration

Insight: Users visited an average of 2.34 administrative pages per session, but this varies significantly. Time spent on these pages averages 81.65 seconds, with the maximum duration extending to about 56 minutes.

Recommendation: Administrative pages are essential for specific functions, but the low engagement suggests they may not be critical to most user sessions. Streamlining the administrative experience could improve user flow without disrupting overall engagement.

2. Informational & Informational Duration

Insight: Informational pages are visited less frequently, averaging 0.51 pages per session, and time spent on them is relatively low (34.83 seconds on average). However, some sessions extend to 42 minutes.

Recommendation: Improve the accessibility of key information to minimize excessive time spent on informational pages, which may be causing friction for some users. Ensure essential information is concise and easy to find.

3. Product-Related & Product-Related Duration

Insight: Product-related pages have the highest interaction, with an average of 32 pages per session. Time spent on these pages is also significantly higher (20 minutes on average), with outliers indicating sessions that last for hours.

Recommendation: Optimize the product pages for better user engagement and faster conversions. Since users spend more time here, ensure the layout, loading speed, and product details are top-notch to enhance user satisfaction and drive conversions.

4. Bounce Rates & Exit Rates

Insight: The average bounce rate is low (2.04%), indicating that users generally interact beyond the first page. Exit rates average 4.15%, but certain pages experience exit rates as high as 20%.

Recommendation: Review pages with high exit rates to identify areas of improvement. These could be poorly optimized pages or dead-ends in the user flow. Optimizing them could help keep users on the site longer and improve conversion rates.

5. Page Values

Insight: The average page value is 5.95, but most sessions result in 0 page value, indicating that half of the sessions do not lead to revenue. The maximum page value reaches 361.76, showing the potential for high-value transactions.

Recommendation: Focus on improving conversion rates for lower-value sessions by identifying bottlenecks in the user journey. Enhance the user experience on high-traffic but low-conversion pages to increase the likelihood of generating revenue.

6. Correlation Between Session Features and Engagement

Insight: Strong correlations exist between the number of pages visited and the time spent on them (e.g., 0.86 correlation between product-related pages and their duration). However, visiting more pages does not always translate into higher revenue, as indicated by the weak correlations with page values.

Recommendation: Rather than simply encouraging more page views, focus on the quality of user interaction. Implement features like personalized recommendations or streamlined product discovery to encourage meaningful engagement and faster purchasing decisions.

7. Traffic Source Analysis

Insight: Traffic Type 2 has the highest session count and the potential for high revenue, while Types 7 and 20, though fewer in sessions, have higher average revenue per session.

Recommendation: Prioritize high-performing traffic sources (e.g., Traffic Types 7 and 20) by doubling down on marketing efforts targeting those channels. At the same time, analyze the low-revenue traffic types (e.g., Types 12, 16, 17, and 18) to improve their performance or allocate resources elsewhere.

8. Visitor Type Breakdown

Insight: Returning visitors make up the majority of sessions but show lower average page values compared to new visitors, who, although fewer, have higher average revenue potential.

Recommendation: Design campaigns that specifically target returning visitors with personalized offers or incentives to increase their engagement. For new visitors, capitalize on their higher likelihood of conversion with effective onboarding and targeted promotions.

9. Geographic Analysis

Insight: Region 1 dominates the user base but shows an average page value with high variability. Regions like Region 9, despite having fewer sessions, show higher average page values, indicating more engaged or high-value users.

Recommendation: Focus marketing efforts on regions with high engagement and revenue potential (e.g., Region 9). Additionally, analyze regions with lower average page values (e.g., Regions 2, 6, 7, and 8) to identify and address barriers to conversion.

10. Outlier Analysis

Insight: Across all session features (Administrative, Informational, Product-related pages), there are notable outliers where some sessions exhibit significantly higher engagement (in terms of page visits and duration) than others.

Recommendation: Investigate the characteristics of these outlier sessions to determine if they represent particularly engaged or frustrated users. If they indicate frustration, reduce friction points; if they represent highly engaged users, consider how to replicate that experience across more sessions.

11. Special Days and User Behavior

Insight: Over 90% of user sessions occur on non-special days, indicating that special occasions don't significantly impact user sessions.

Recommendation: Implement targeted marketing campaigns for special days to boost engagement and conversions, especially around key holidays or promotional events where there is an opportunity to attract more traffic.

12. Device and Browser Optimization

Insight: The majority of users access the platform using Operating System 2 (over 50%) and Browser 2 (64.59%). Other operating systems and browsers are less frequently used.

Recommendation: Focus platform optimization efforts on the most commonly used OS and browsers to ensure a smooth user experience. Additionally, assess performance on less-used systems to ensure there are no critical issues that deter users from engaging.

13. Weekend vs. Weekday Behavior

Insight: Most sessions occur during the weekdays, but weekend sessions show a slightly higher conversion rate.

Recommendation: Implement weekend-specific promotions or strategies to capitalize on the higher conversion potential. This could include flash sales, limited-time offers, or special incentives designed to drive purchases over the weekend.

14. Conversion Rates by Traffic Type and Region

Insight: Traffic Types 7 and 8 have the highest revenue rates, while certain regions like Region 9 show the highest conversion rates.

Recommendation: Focus conversion optimization efforts on these high-performing traffic sources and regions. Tailor marketing efforts to replicate successful strategies in lower-conversion areas, increasing revenue generation potential across the board.

15. Bounce and Exit Rate Reduction Strategies

Insight: High bounce and exit rates are more prevalent on product-related pages, indicating that users may be leaving after browsing too many products without converting.

Recommendation: Simplify the product browsing process by incorporating features like better filtering, faster load times, or personalized recommendations to reduce friction and encourage conversions before users bounce or exit.

Conclusion:

The data highlights significant opportunities for improving user engagement and conversion rates. By focusing on optimizing the user experience on high-interaction pages (like product-related pages), targeting high-revenue traffic types and regions, and reducing friction in areas with high bounce or exit rates, the platform can increase overall revenue. Additionally, addressing underperforming visitor types and enhancing engagement during special promotions or weekends could further drive conversions.