

GOOGLE ANALYTICS PERFORMANCE REPORT

(datascience.one website)

Executive Summary

Objective:

The objective of this analysis is to evaluate user acquisition, engagement, and conversion performance for datascience.one education website offering data science courses, with a focus on improving lead quality, enrollment efficiency, and marketing ROI.

Key Outcomes

- Strong **top-of-funnel performance** driven by brand awareness and organic visibility
- Significant **variation in lead and conversion quality across channels**
- Clear **conversion friction within the lead funnel**
- Heavy **geographic and device concentration**, creating prioritization opportunities

Strategic Conclusion

Growth to date has been **volume-led**. Future impact depends on **scaling high-intent channels, reducing funnel friction, and tracking success through enrollment-focused KPIs**.

Data Sources & Methodology

Data Sources:

1. Google Analytics 4 (GA4)

- User Acquisition
- Lead Acquisition
- Demographic Details
- Engagement Overview
- Event Analysis
- Landing Page Engagement Overview
- Organic Google Search Overview
- Device Category Overview
- Operating System & Screen Resolution

Methodology:

- Data extracted from **GA4** was provided. (GA4 dataset was separated – Separating GA4 datasets allowed to generate focused, accurate insights without mixing metrics across different analytical domains.)
- Data Cleaning using **Python** and **Power Query Editor**.
- Exploratory Data Analysis Using **Plotly**.
- Funnel and Cohort based analysis.
- Insight synthesis – Recommendations – KPI framework.

Bias Handling:

To avoid **zero-activity bias**, engagement analysis begins from each user's **first recorded interaction**, ensuring trends reflect actual behaviour rather than inactive periods.

Exploratory Data Analysis

1. Acquisition & Channel Performance Analysis

Traffic Volume Insights:

- Direct and Organic Social dominate user acquisition, indicating strong brand awareness.
- High-volume channels, however, show lower conversion efficiency.

Conversion Quality Insights

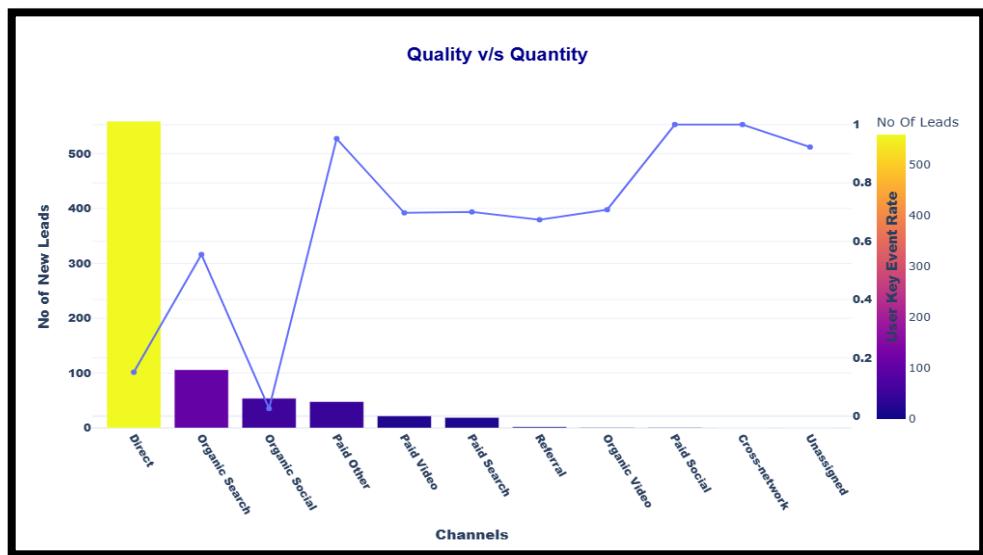
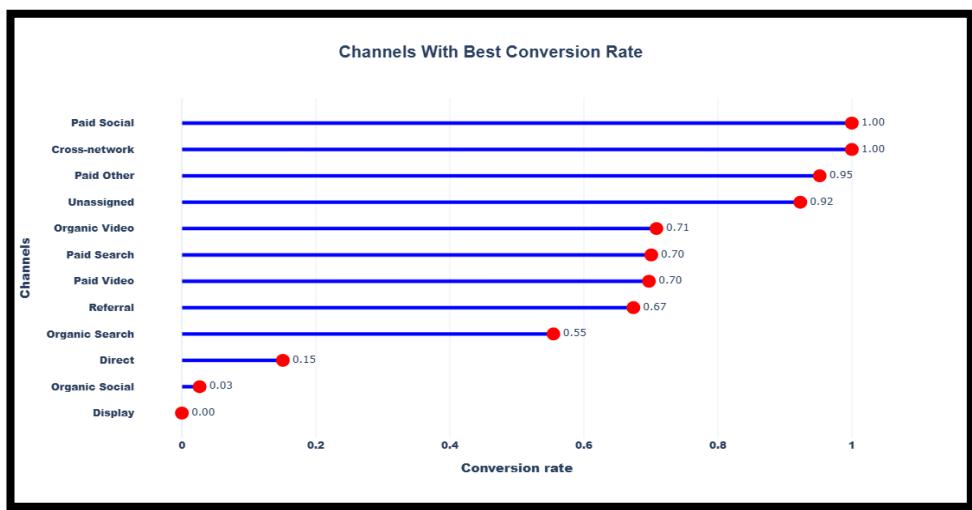
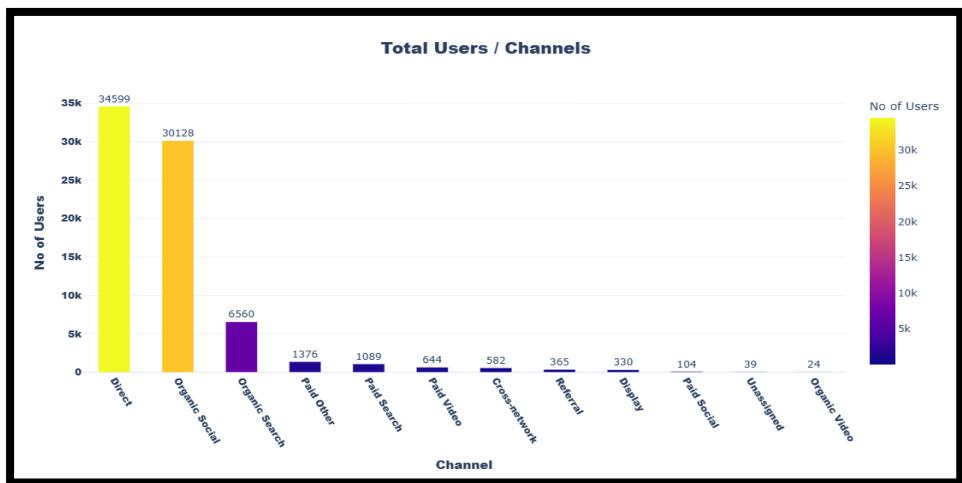
- Paid Social and Cross-network channels generate fewer users but demonstrate exceptionally high conversion efficiency, signalling strong intent.
- Organic Search delivers the best balance between scale and quality.

Interpretation

Not all traffic contributes equally to business outcomes.

Intent-driven channels outperform volume-driven channels on enrollments.

Charts:



2. Lead Funnel & Conversion Analysis

Funnel Observations:

- Page views dominate event volume, confirming strong content visibility.
- A sharp drop exists between **form starts** and **form submissions**.
- Lead generation remains limited relative to engagement volume.

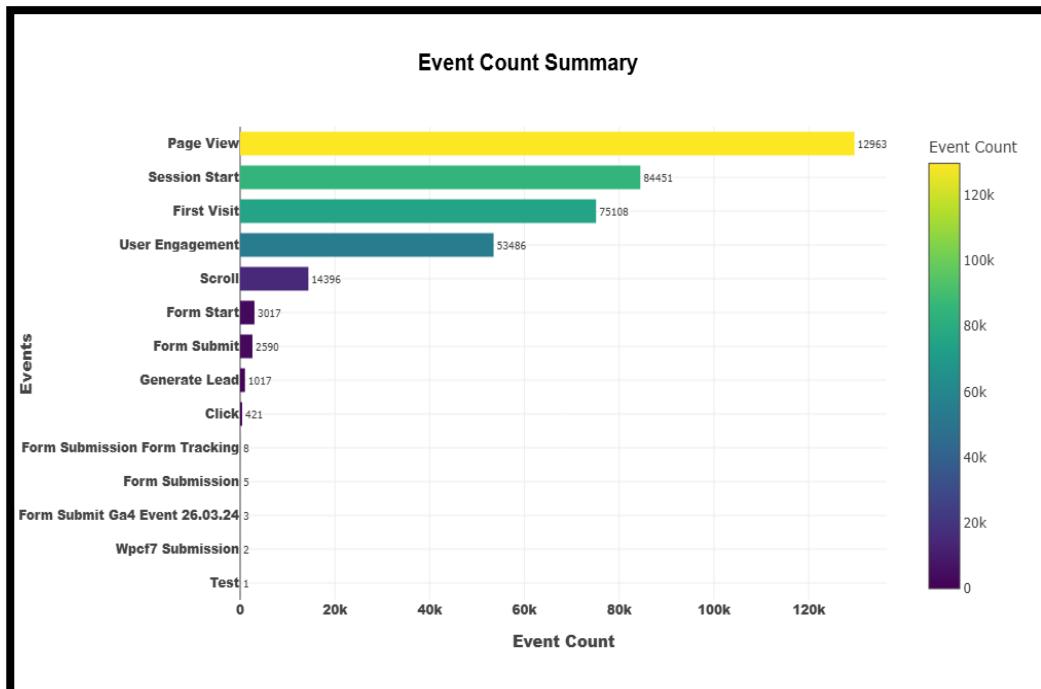
Key Issue Identified:

Conversion friction, likely caused by:

- Long or complex forms
- Mobile UX limitations
- Lack of trust signals at conversion points

Business Impact

Improving funnel efficiency offers **high ROI** without increasing traffic spend.



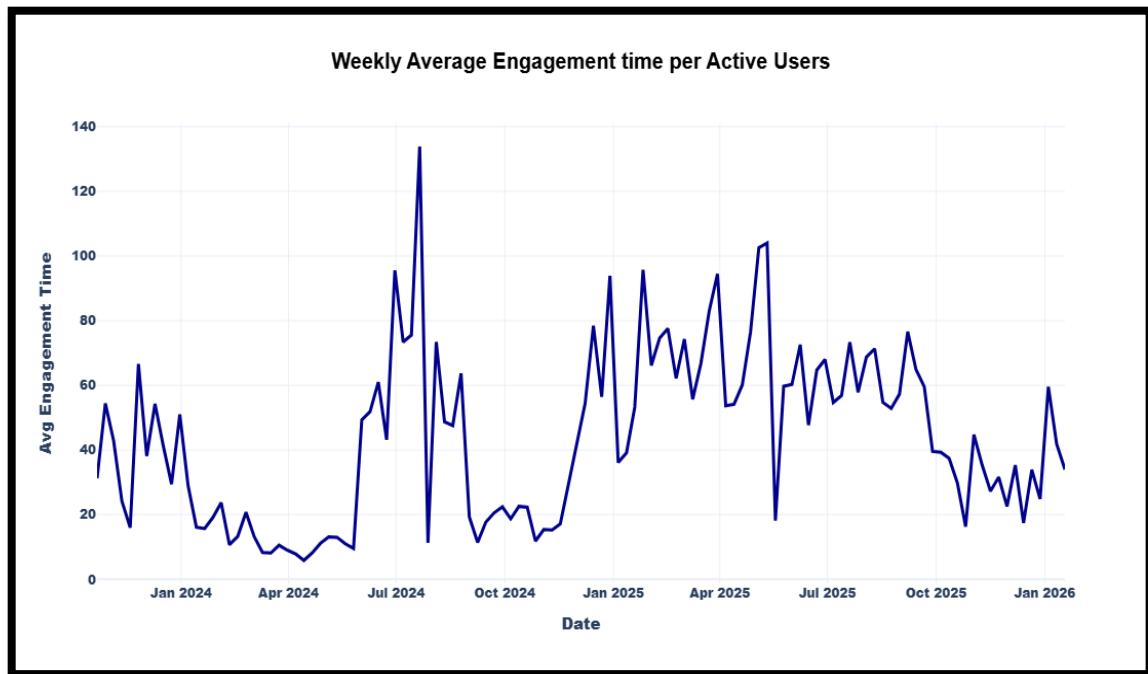
3. Engagement Trends Analysis

Engagement Behaviour:

- Early-stage engagement is volatile, indicating inconsistent initial interaction.
- Distinct engagement spikes align with campaigns or content releases.
- Post mid-2024, engagement stabilizes at a higher baseline.

Interpretation

User behaviour shows **maturation over time**, shifting from sporadic visits to sustained interaction — a positive signal for enrollment probability.



4. Geography & Device Analysis

Geographic Performance:

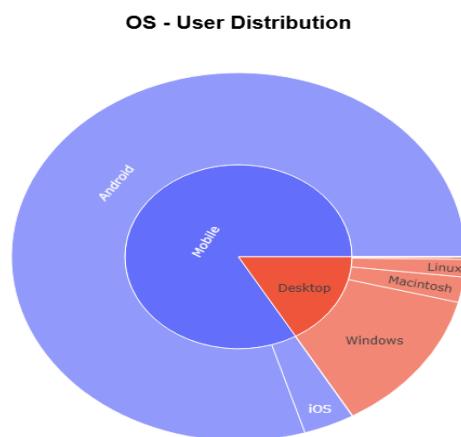
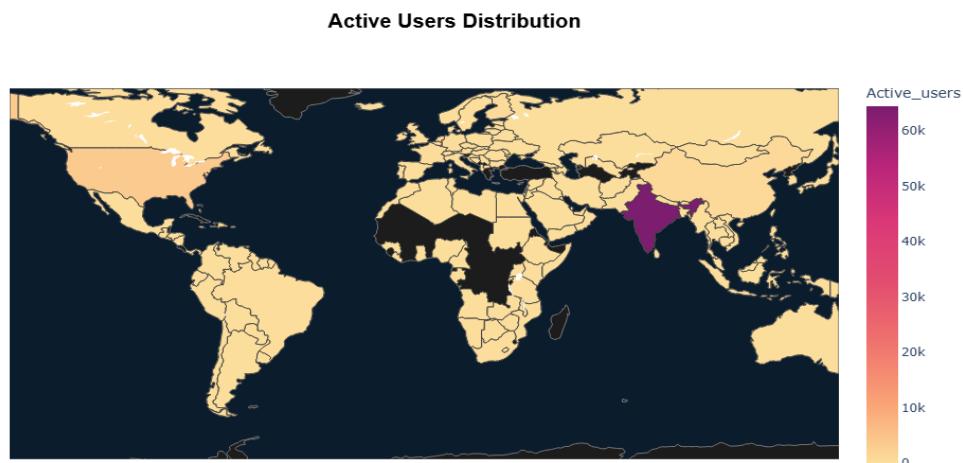
- India contributes ~88% of total key events and is the primary revenue market.
- United States is the strongest secondary market, showing high conversion potential.
- Other regions remain early-stage with limited engagement.

Device Insights:

- Mobile dominates traffic, with Android as the leading platform.
- Desktop remains relevant for research-heavy interactions.
- Tablet and Smart TV usage is negligible.

Strategic Implication

A mobile-first, geo-prioritized strategy is essential for efficient growth.



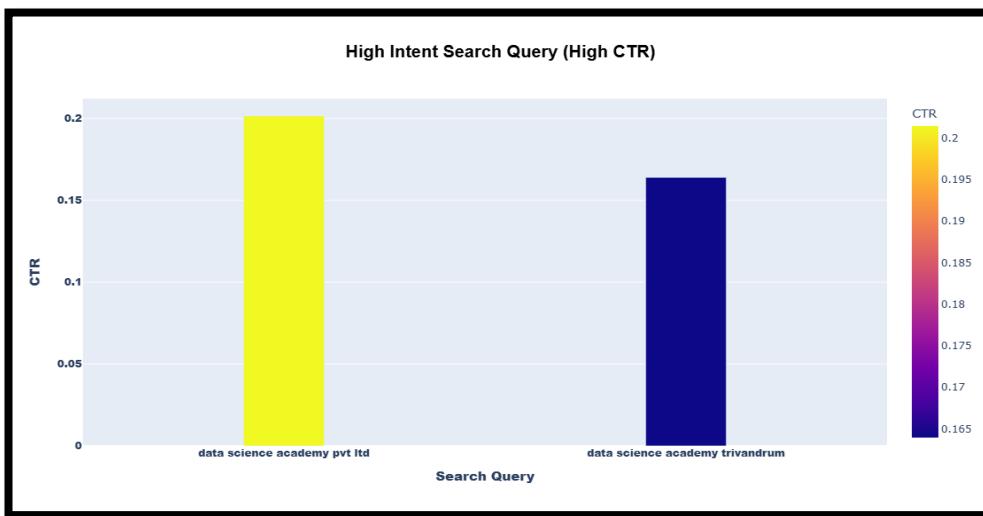
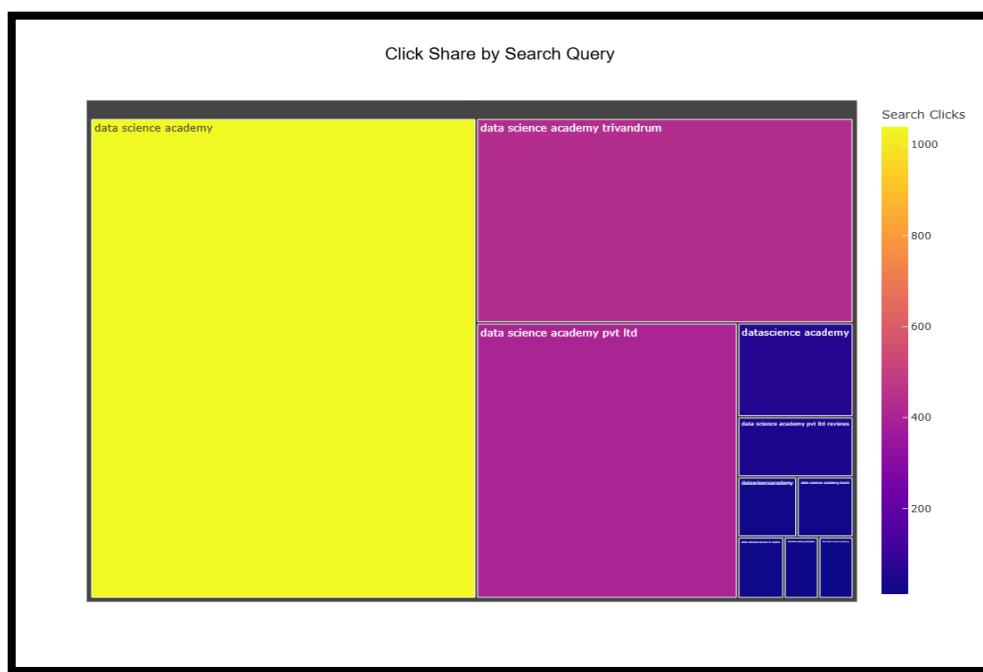
5. SEO & Demand Analysis

Keyword Performance:

- Organic visibility is heavily brand-led, driven by “Data Science Academy” queries.
- Branded and location-based queries deliver very high CTR.
- Non-branded keywords show lower scale but strong expansion potential.

Opportunity:

- Improve CTR for high-impression keywords
- Expand non-branded and course-specific content
- Protect branded search dominance



KPI Framework

1. North-Star KPIs:

- Course Enrollments
- Enrollment Conversion Rate
- Cost per Enrollment
- Revenue per Enrollment

2. Lead Quality KPIs:

- Qualified Lead Rate
- Form Completion Rate
- Lead-to-Enrollment Rate
- Key Event Rate (High-Intent Actions)

3. Acquisition Channel KPIs:

- Conversion Rate by Channel
- Cost per Qualified Lead (CPQL)
- Channel ROI

4. Engagement & Consideration KPIs:

- Engaged Sessions per User
- Average Engagement Time
- Return Visitor Rate
- Content-Assisted Conversion Rate

5. SEO & Demand Capture KPIs:

- Non-Branded Organic Traffic Growth
- Organic CTR (Top Keywords)
- Share of Search (Brand vs Non-Brand)

6. Geography & Market Expansion KPIs:

- Enrollments by Geography
- Geo-wise Conversion Rate
- Localized Page Conversion Rate

7. Device & Experience KPIs:

- Mobile Conversion Rate
- Mobile Form Drop-Off Rate
- Page Load Time (Mobile)

8. Retention & Nurture KPIs:

- Lead Nurture Conversion Rate
- Time to Enrollment
- Repeat Engagement Rate Before Enrollment

Final Conclusion

The analysis highlights a strong foundation of brand awareness and engagement. However, sustainable growth will depend **on quality-led acquisition, conversion optimization, and enrollment-focused KPIs**. By aligning analytics insights with execution and measurement, the organization can achieve scalable growth while improving marketing efficiency and ROI.