

Instagram Analytics Deep Dive: Tech Influencer Performance Analysis

Analyzing 273 posts over 9 months (Jan-Sep 2023) revealing powerful insights:



22M+ impressions

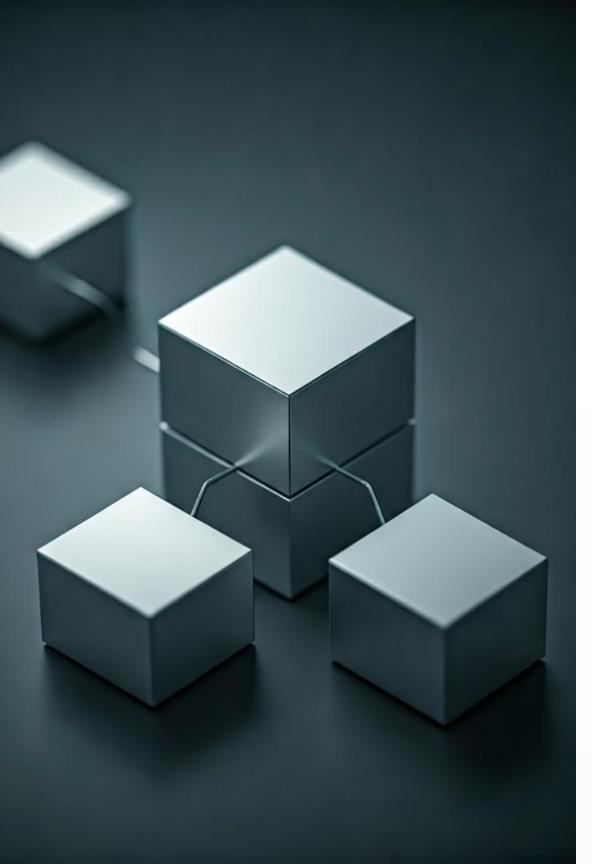


9M+ reach



302K+ new followers

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Data Foundation & Analysis Framework

Database Tables	Records	Metrics
dim_date	273	Calendar dimensions
fact_account	9 months	Profile metrics
fact_content	12 KPIs	Content performance

SQL Analysis

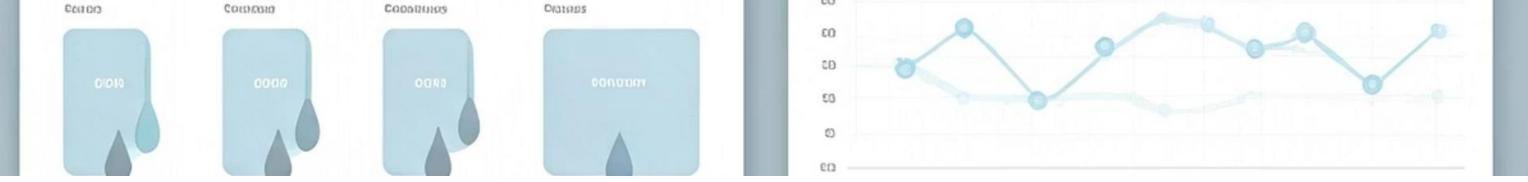
Query-based data extraction and transformation

Statistical Aggregation

Performance metrics calculation and normalization

Trend Identification

Pattern recognition across time periods



Performance Dashboard

22.2M

Impressions

124.8K

Engagement

4.15% rate

9.1M

Reach

40.9% reach rate

302.5K

New Followers

67.5% conversion

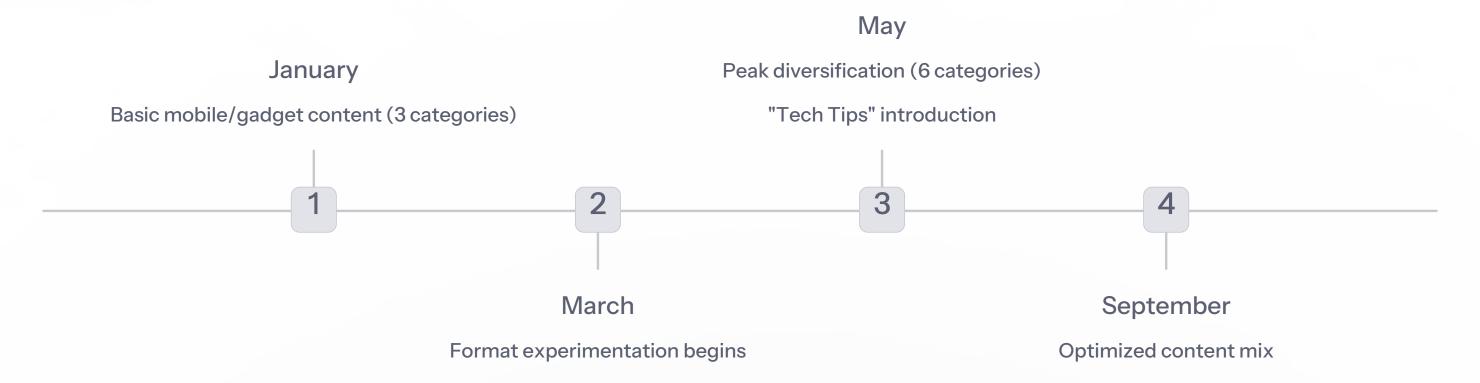








Content Strategy Maturation Timeline



Category diversification expanded audience reach while educational content boosted engagement.

Engagement Behavioral Analysis

Daily Patterns

Weekend posts outperform weekdays by 23%

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Seasonal Trends

Q1 low, Q2 peak, Q3 sustained engagement

Sharing Behavior

Reels generate 59.8% of all shares

Content Preference

Educational content drives highest interaction

5 0

Strategic Recommendations: Data-Driven Optimization



Content Mix Optimization

- Increase Reels to 40% of content
- Optimize Carousel strategy
- Maintain "Tech Tips" focus



Timing Strategy

- Leverage weekend posting
- Capitalize on Q2 seasonal patterns



Category Focus

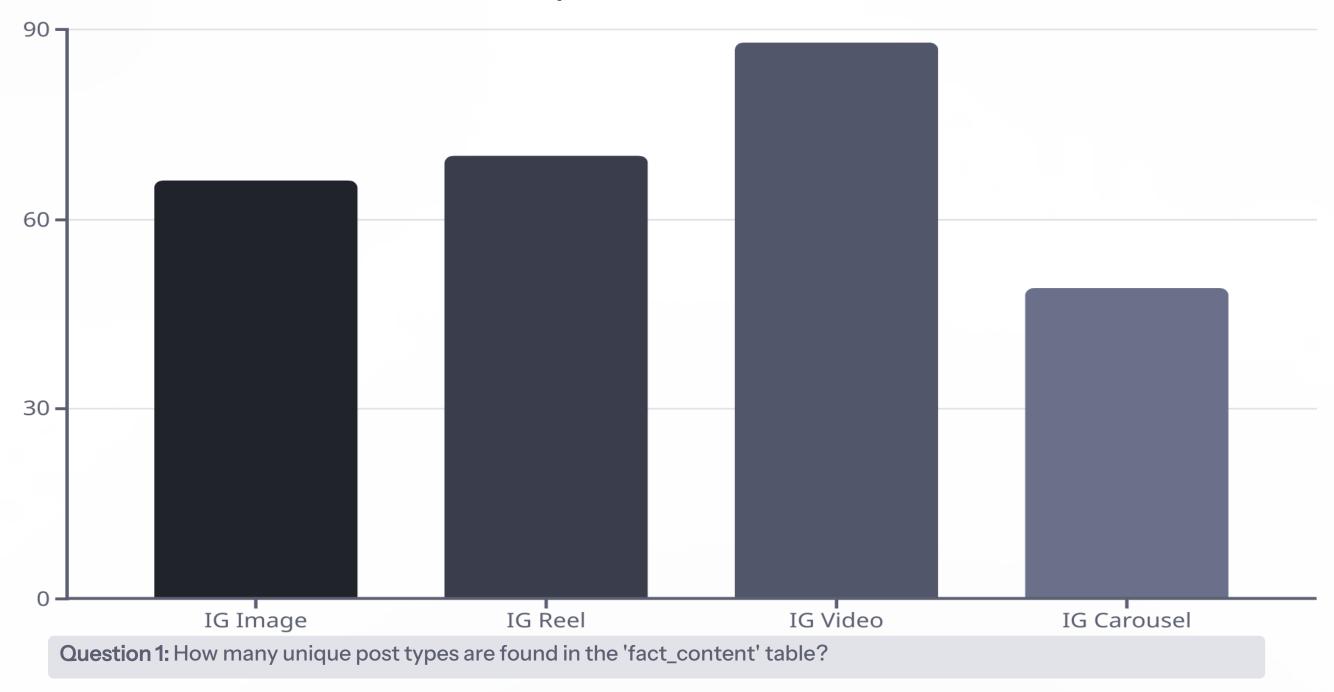
- Prioritize "Other Gadgets" and "Tech Tips"
- Maintain Mobile content baseline



Engagement Tactics

- Develop viral content templates
- Implement cross-format content series

Content Format Distribution Analysis



SELECT distinct post_type FROM fact_content;

Video content (Reels + Videos) dominates at 58.1% of all posts. All four major Instagram formats are utilized for maximum audience reach.



Impression Performance: Highs and Lows

```
Question 2: What are the highest and lowest
      IG Reel
                    recorded impressions for each post type?
      MAX: 339,708
      MIN: 87,570
                     SELECT
      IG Image
                          post_type,
2
      MAX: 129,694
                          MAX(impressions) AS max_impression,
      MIN: 23,367
                          MIN(impressions) AS min_impression
      IG Video
                     FROM
3
      MAX: 73,321
                          fact_content
      MIN: 8,741
                     GROUP BY
      IG Carousel
                          post type;
4
      MAX: 9.677
```

MIN: 3,264

Reels dominate with 3.7x better performance than other formats. Carousels consistently underperform.



Weekend Posting Strategy: March-April



Question 3: Filter all the posts that were published on a weekend in March and April.

```
SELECT * FROM gdb0120.fact_content
join dim_dates using(date)
where weekday_or_weekend = "weekend" and
(month_name = "March" or month_name = "April")
```

Sunday posts were particularly effective. Weekend Reels consistently outperformed other formats.



Monthly Growth Trajectory

448,013

302,513

Total Profile Visits

Jan-Sep 2023

New Followers

67.5% conversion rate

55K

Peak Monthly Visits

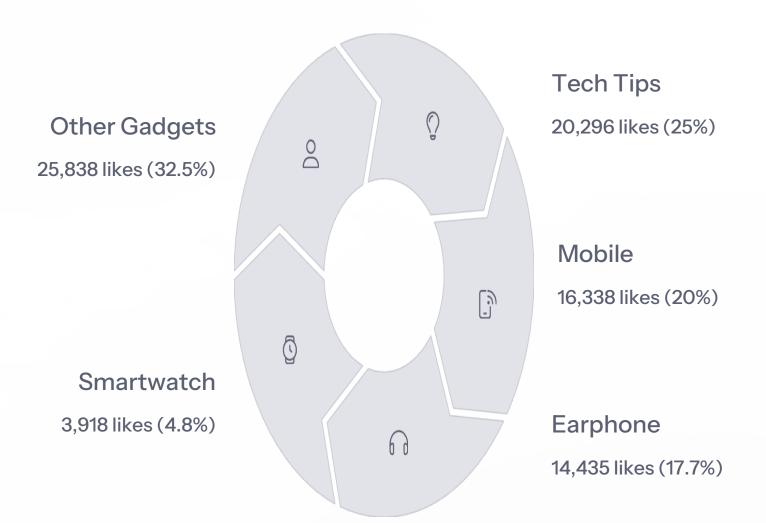
May-June period

Question 4: Create a report to get the statistics for the account.

```
DATE_FORMAT(date, '%Y-%m-01') AS month,
sum(profile_visits) as total_profile_visits,
sum(new_followers) as total_new_followers
from fact_account
GROUP BY month
ORDER BY month;
```

Growth shows consistent upward pattern. May-June period delivered strongest performance.

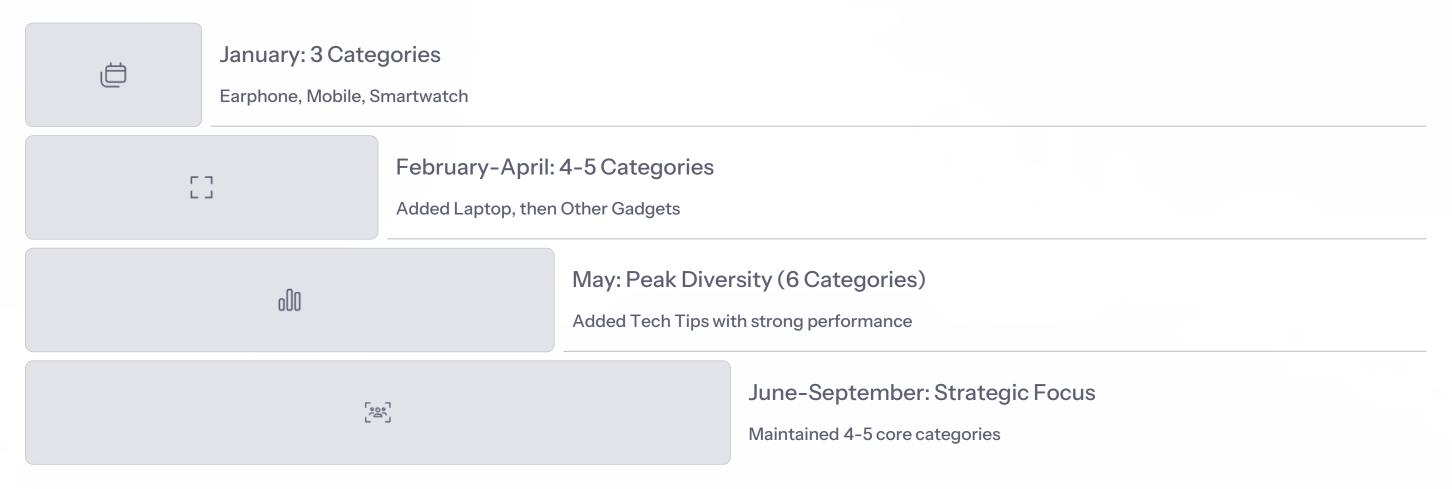
July 2023: Category Performance by Likes



Question 5: Write a CTE that calculates the total 'likes' for each 'post_category' during 'July'.

Hardware content dominates with 69.5% of engagement. Educational "Tech Tips" ranks second.

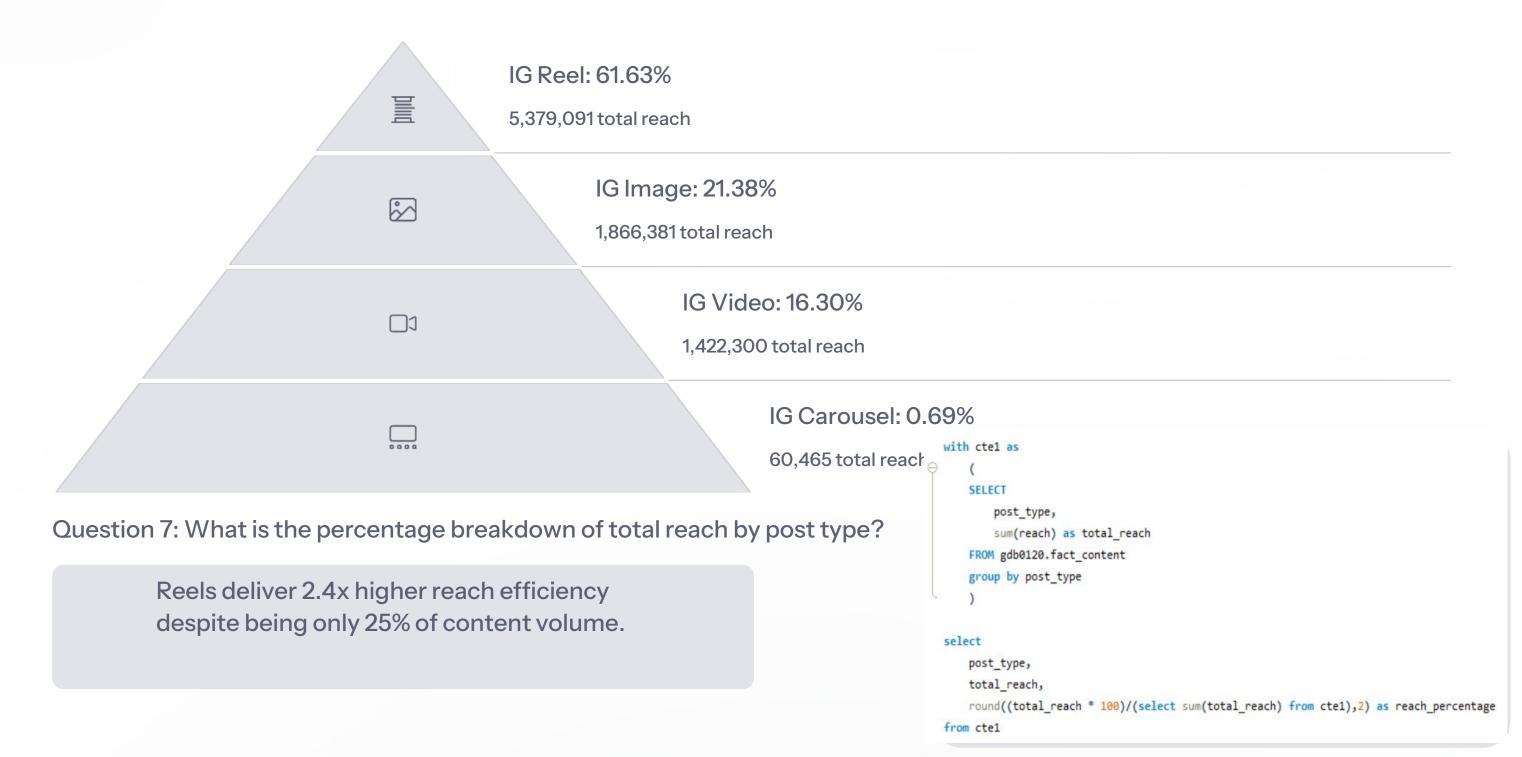
Content Diversification: Monthly Evolution



Question 6: Create a report showing unique post_category names and counts by month.

Content strategy evolved strategically. May represents peak diversification.

Reach Distribution: Algorithm Preference



Quarterly Engagement Trends

Q2 shows peak engagement across most categories. Tech Tips consistently outperforms in saves.

Category	Quarter	Comments	Saves
Tech Tips	Q2	1,165	8,364
Mobile	Q2	768	5,951
Other Gadgets	Q3	702	4,823

Question 8: Create a report with quarter, total comments, and saves for each category.

```
SELECT

post_category,

CASE

WHEN MONTH(date) IN (1, 2, 3) THEN 'Q1'
WHEN MONTH(date) IN (4, 5, 6) THEN 'Q2'
WHEN MONTH(date) IN (7, 8, 9) THEN 'Q3'
WHEN MONTH(date) IN (10, 11, 12) THEN 'Q4'
END AS quarter,
SUM(comments) AS total_comments,
SUM(saves) AS total_saves

FROM gdb0120.fact_content
GROUP BY
post_category, quarter
ORDER BY
post_category, quarter;
```

Viral Moments: Top Follower Acquisition Days

May 8: Absolute Peak

8,872 new followers

Coincided with viral tech comparison post

June 3: Early Month Growth

8,802 new followers

New product announcement drove acquisition

Question 9: List the top three dates in each month with the highest number of new followers.

May-June period shows exceptional growth potential. Month-end content drives acquisition.

June 30: Month-End Spike

8,804 new followers

End-of-month content campaign success

February 1: Q1 Leader

4,106 new followers

Standout performance in slower growth period

Weekly Share Performance: Content Virality Analysis

Question 10: Create a stored procedure that takes the 'Week_no' as input and generates a report displaying the total shares for each 'Post_type'.

```
⊖ BEGIN

and generates a report displaying the total shares for each 'Post type'.
  The output of the procedure should consist of two columns:

    post type

  total_shares */
     declare week num VARCHAR(10);
     SET week_num = CONCAT('W', input_week_no);
     SELECT
         post_type,
         sum(shares),
         week no
     FROM gdb0120.fact_content
     join dim_dates using (date)
     where week no = week num
     group by week_no, post_type;
  END
```

- IG Reels are the most shared content in almost many weeks
- IG Reels account for the largest share with 59.84% in all weeks.

Key Insights & Future Analytics



Reels Dominate Reach

61.6% of reach from Reels, yet optimization opportunity exists



Timing Matters

Q2 and weekend posting drive peak engagement



Educational Content Wins

"Tech Tips" shows highest audience value

Implement Real-Time Analytics

Monitor performance as content publishes

Develop Predictive Models

Forecast engagement based on content attributes

Establish Optimization Cycles

Monthly strategy refinement based on data





Thank You

Data-Driven Instagram Growth: From 302K Followers to Strategic Optimization

22M+ Impressions

Comprehensive analysis across all content

61.6% Algorithm Optimization

Identified for reach enhancement

67.5% Conversion Rate

From profile visits to followers

Available for follow-up questions and implementation support.