

## Insight Summary

Project: BearCart – E-Commerce Growth & Conversion Intelligence

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### 1. Problem Statement Alignment

BearCart's data reveals a **strong growth trajectory**, driven by increasing conversion efficiency and improving revenue per session. While **paid marketing channels dominate traffic volume**, **conversion efficiency and revenue impact vary significantly by source, device, and landing experience**. Checkout funnel friction, mobile underperformance, and under-optimized landing pages present immediate opportunities to improve ROI. Seasonal demand patterns and product-level performance highlight clear windows for strategic scaling.

This analysis transforms raw, fragmented data into **decision-ready insights** that enable BearCart leadership to **optimize marketing spend, improve website conversion, and accelerate revenue growth**.

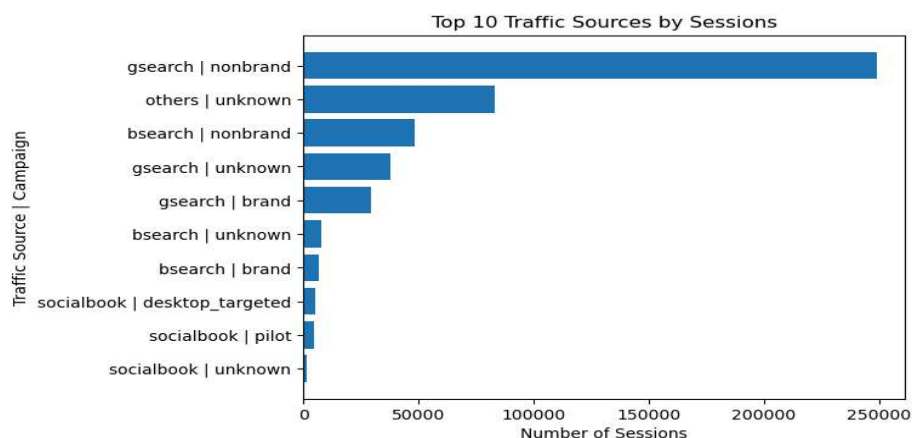
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### 2. Data-Driven Insights (Mapped to Visualizations)

#### ◆ Insight 1: Traffic Volume ≠ Business Value

Visualization Used:

- Bar chart: *Top Traffic Sources by Sessions*
- Sessions distribution by UTM source



### Data Evidence:

- Paid Search and Email generate the highest session volume
- Significant session imbalance across campaigns within the same source

### Decision Insight:

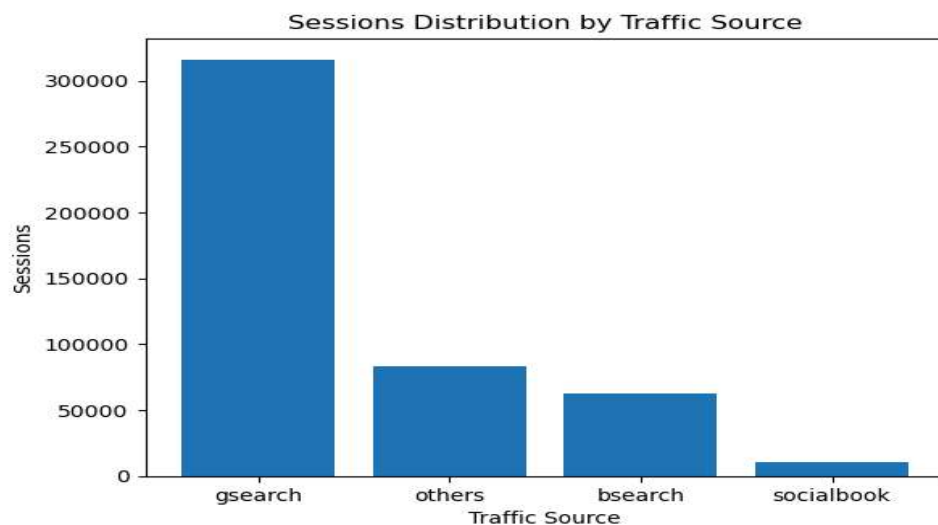
High traffic alone does not guarantee revenue contribution. Several campaigns consume budget but deliver minimal incremental value.

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## ◆ Insight 2: Conversion Efficiency Varies Sharply by Channel

### Visualization Used:

- Bar chart: *Conversion Rate by Traffic Source*



### Data Evidence:

- Email and Referral channels show **higher CVR** despite lower traffic
- Paid Search drives volume but underperforms in conversion efficiency

### Decision Drawn:

Traffic quality matters more than quantity. Conversion-efficient channels deliver better ROI even at lower scale.

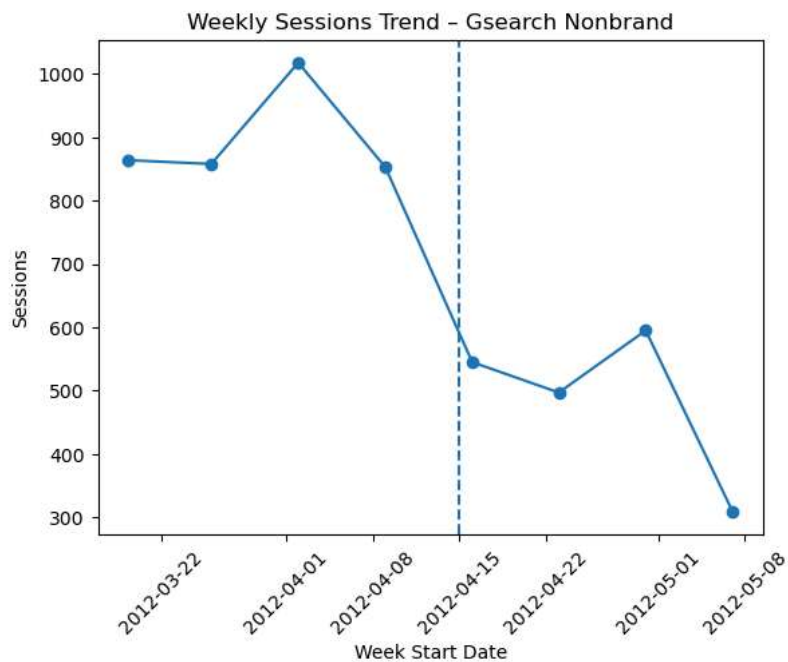
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## ◆ Insight 3: Paid Search Traffic Is Bid-Sensitive

### Visualization Used:

- Weekly trend line: *Gsearch Nonbrand Sessions (Pre/Post Bid Change)*

	start_date	sessions
0	2012-03-19 08:04:16	864
1	2012-03-26 00:16:54	858
2	2012-04-02 00:22:20	1018
3	2012-04-09 00:47:20	853
4	2012-04-16 00:42:51	545
5	2012-04-23 00:06:01	497
6	2012-04-30 00:06:05	595
7	2012-05-07 00:05:35	309



#### Data Evidence:

- Noticeable session decline after 2012-04-15 bid reduction
- Traffic reacts immediately to bid changes

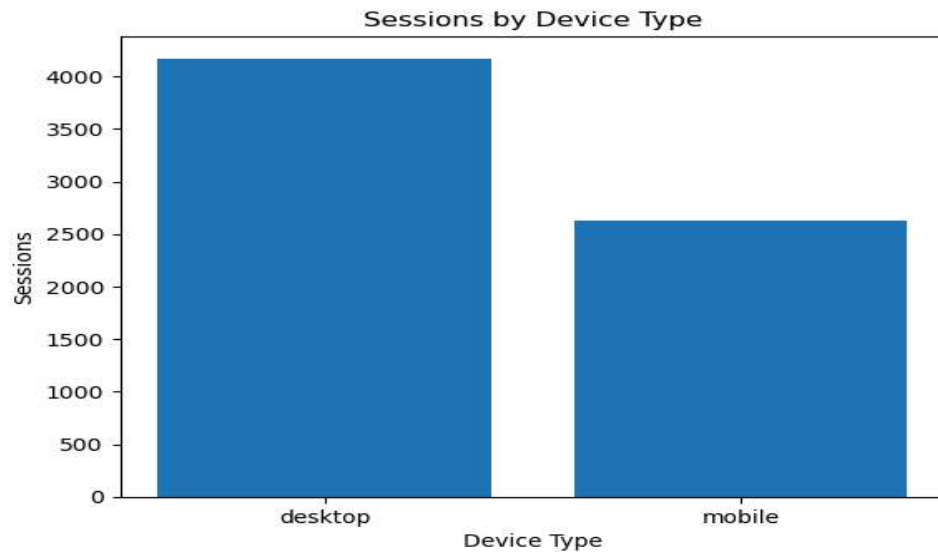
**Decision Drawn:**

Nonbrand paid search lacks stability and must be managed with strict ROI controls.

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**◆ Insight 4: Desktop Users Convert Significantly Better****Visualization Used:**

- Bar charts: *Sessions and Orders by Device Type*

**Data Evidence:**

- Desktop CVR  $\approx$  2x mobile CVR
- Mobile contributes traffic but weak conversion

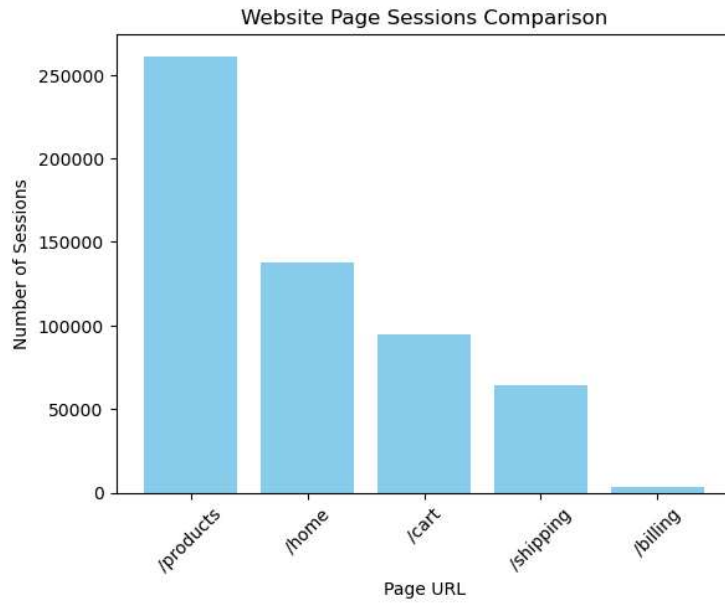
**Decision Drawn:**

Device-level bidding should favor desktop until mobile checkout experience improves.

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**◆ Insight 5: Checkout Funnel Is the Primary Conversion Bottleneck****Visualization Used:**

- Bar chart: *Page-wise Session Distribution*



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**Data Evidence:**

- Strong traffic on /home and /products
- Sharp session drop-off at /cart → /shipping → /billing

**Decision Drawn:**

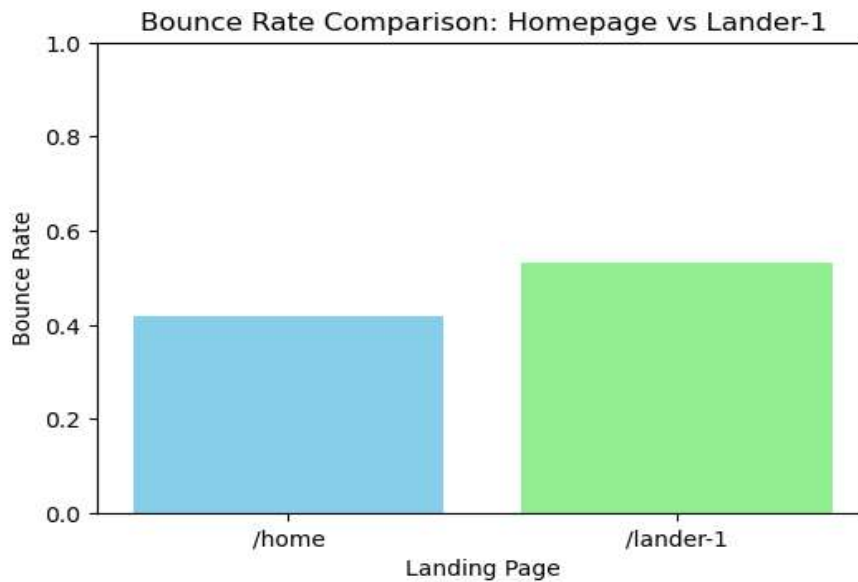
Revenue leakage occurs late in the funnel due to friction, not lack of demand.

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◆ **Insight 6: New Landing Page Underperforms the Homepage**

**Visualization Used:**

- Bounce rate comparison: /home vs /lander-1



**Data Evidence:**

- /lander-1 bounce rate (53%) higher than homepage (41%)
- Homepage still drives majority of engaged sessions

**Decision Drawn:**

The new landing page does not improve engagement and requires optimization before traffic scaling.

◆ **Insight 7: Conversion and Revenue Efficiency Are Improving Over Time**

**Visualization Used:**

- Line charts: *Quarterly CVR, Revenue per Order, Revenue per Session*



### Data Evidence:

- Gradual increase in session-to-order CVR
- Revenue per order stable
- Revenue per session rising

### Decision Drawn:

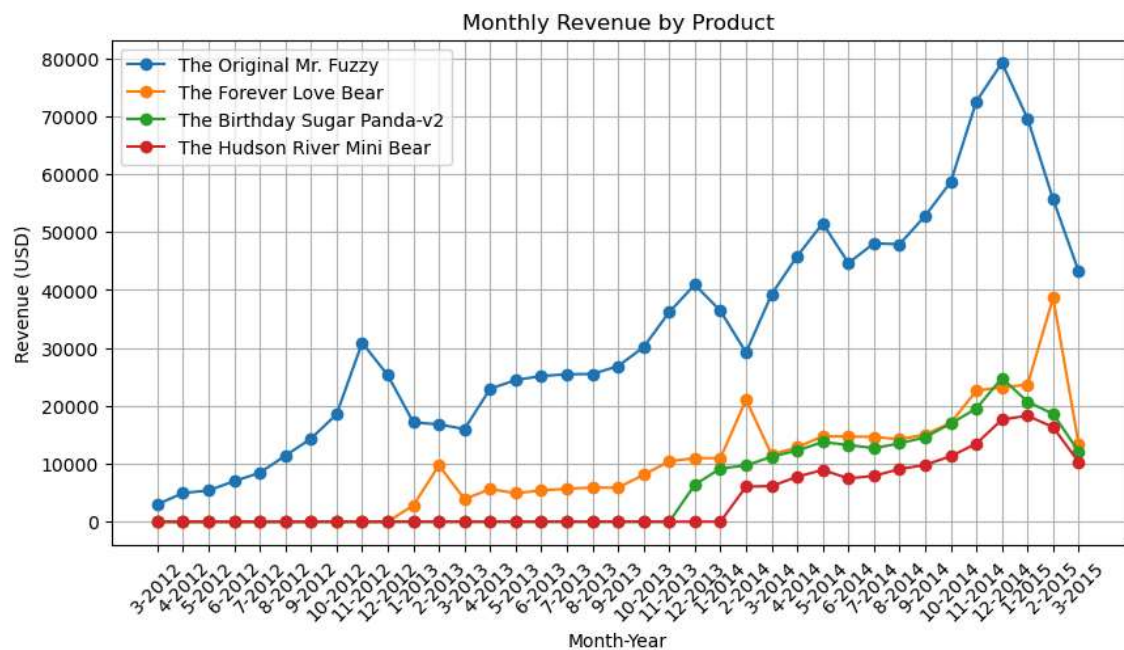
Website and marketing optimizations are compounding positively.

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## ◆ Insight 8: Revenue Is Highly Seasonal and Product-Driven

### Visualization Used:

- Line chart: *Monthly Revenue by Product*



### Data Evidence:

- Revenue peaks in Nov–Dec and February
- Mr. Fuzzy is the dominant revenue driver
- Love Bear spikes during Valentine's season

### Decision Drawn:

Seasonal planning and product-led marketing can significantly amplify revenue.

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### 3. Insight-Driven Business Decisions

Business Question	Data-Based Answer
Where to invest marketing budget?	High-CVR channels over high-traffic channels
What limits conversion growth?	Checkout funnel friction
Which device deserves higher bids?	Desktop
Is paid search scalable?	Yes, but bid-sensitive
Is the new landing page effective?	No, needs optimization
When should campaigns scale?	Seasonal demand peaks

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### 4 Future Data Enhancements

To deepen insight quality and decision confidence, future data additions could include:

- Marketing spend data → true ROI analysis
  - Customer demographics → personalization
  - Page load speed & UX metrics → bounce diagnosis
  - Refund reasons → product & experience quality
  - Customer lifetime value (CLV) → long-term profitability
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### 5. Final Business Recommendations

#### Marketing

- Reallocate spend toward **high-conversion channels**
- Optimize or pause low-impact paid campaigns
- Increase desktop bid allocation

#### Website & Conversion

- Simplify checkout flow (cart → billing)
- Optimize mobile UX before scaling traffic
- Redesign /lander-1 using A/B testing

#### Revenue & Growth

- Scale campaigns during seasonal peaks
- Bundle products to increase AOV



- Promote top-performing SKUs strategically
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## 6. Conclusion

BearCart possesses strong demand and growing conversion efficiency but currently **leaks value through inefficient marketing allocation, mobile underperformance, and checkout friction**. By shifting focus from traffic volume to **conversion-led growth**, the business can unlock higher profitability without increasing acquisition costs.

This dashboard transforms complex datasets into a **management decision tool**, enabling leadership to act with confidence on **where to invest, what to fix, and when to scale**.