PROJECT REPORT

Project Title: irevolution: a data-driven exploration of apple's iphone impact in india using tableau

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1. INTRODUCTION

1.1 Project Overview: irevolution: a data-driven exploration of apple's iphone impact in india

This project aim for analyzes how Apple's iPhone has influenced the Indian smartphone market over time. The project explores trends in sales, pricing, and product adoption using visual analytics. It provides insights into Apple's market strategy and consumer response through interactive data storytelling.

Objectives:

- 1. To analyze the growth and market impact of Apple's iPhone in India.
- 2. To identify trends in pricing, sales, and product adoption over time.
- 3. To visualize insights that inform strategic decisions for stakeholders.

Key Activities:

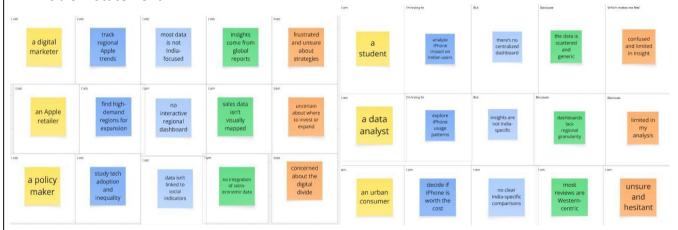
- 1. Collecting and preprocessing data from public sources (CSV files, APIs, reports).
- 2. Performing exploratory data analysis and deriving key performance indicators (KPIs).
- 3. Creating interactive dashboards and visualizations using Tableau.
- Interpreting trends across different time periods, regions, and product models.
- 5. Preparing reports and narratives that communicate data-driven insights effectively.

1.2 Purpose

- 1. The project purpose to evaluate how Apple's iPhone has influenced India's mobile technology landscape by analyzing trends in sales, adoption, and pricing using visual analytics tools.
- 2. To provide business and academic stakeholders with a comprehensive view of Apple's market penetration and strategic evolution in India through interactive, data-driven storytelling.
- The purpose is to transform raw data into actionable insights that highlight the iPhone's performance, customer reach, and market positioning in India over time.

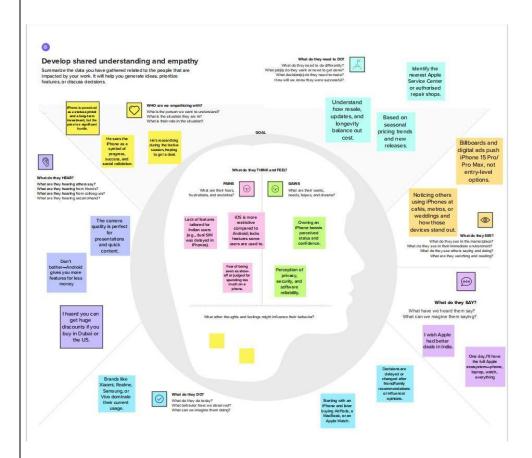
2. IDEATION PHASE

2.1 Problem Statement



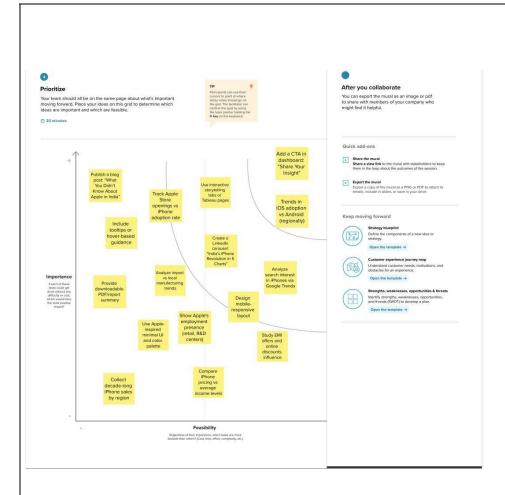
Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	a student	analyze iPhone impact on Indian users	there's no centraliz ed dashboa rd	the data is scattered and generic	confused and limited in insight
PS-2	a data analyst	explore iPhone usage patterns	insights are not India- specific	dashboards lack regional granularity	limited in my analysis
PS-3	an urban consumer	decide if iPhone is worth the cost	no clear India- specific compari sons	most reviews are Western- centric	unsure and hesitant
PS-4	a digital marketer	track regional Apple trends	most data is not India- focused	insights come from global reports	frustrated and unsure about strategies
PS-5	an Apple retailer	find high- demand regions for expansion	no interacti ve regional dashboa rd	sales data isn't visually mapped	uncertain about where to invest or expand
PS-6	a policy maker	study tech adoption and inequality	data isn't linked to social indicator s	no integration of socio- economic data	concerned about the digital divide

2.2 Empathy Map Canvas



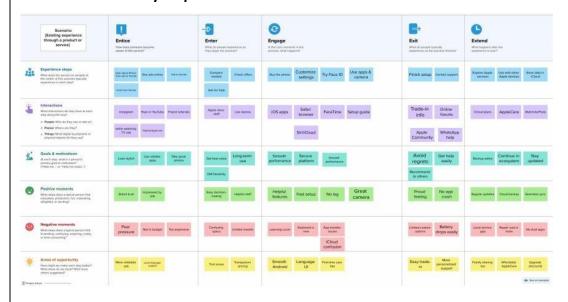
2.3 Brainstorming





3. REQUIREMENT ANALYSIS

3.1 Customer Journey map



3.2 Solution Requirement

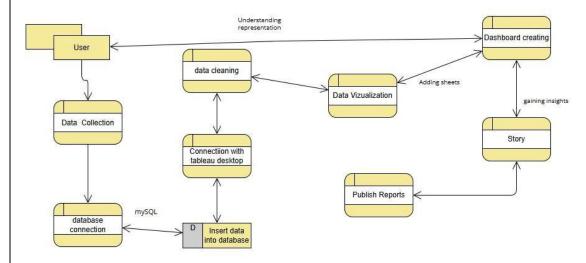
Functional Requirements:
Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Define Objective	Set the goal to explore how Apple's iPhone has influenced the Indian market. Focus on trends, user adoption, and regional insights using data.
FR-2	Data Collection	Gather relevant data from sources like TRAI, Statista, and e-commerce platforms. Collect information on sales, pricing, user demographics, and brand share.
FR-3	Data cleaning	Remove duplicates, fix missing values, and correct inconsistencies. Ensure the dataset is accurate and ready for analysis.
FR-4	Data transformation	Convert raw data into structured formats suitable for Tableau. Create new calculated fields, group data, and format columns.
FR-5	Data visualization and pattern understanding	Use Tableau to build interactive dashboards and charts. Identify patterns in sales, usage, growth areas, and user segments.
FR-6	Analysis and Interpretation	Draw meaningful insights from visual trends and comparisons. Understand key factors driving iPhone adoption in different regions.
FR-7	Dashboard Sharing / Reporting	Publish the final dashboard for stakeholders or on Tableau Public. Create a summary report highlighting insights and recommendations.

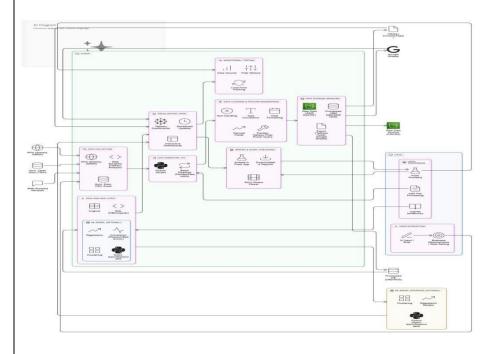
Non-functional Requirements:
Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The Tableau dashboards should be intuitive, user-friendly, and easy to navigate for both technical and non-technical users.
NFR-2	Security	Data access should be secure, with user-level permissions to protect sensitive datasets and visualizations.
NFR-3	Reliability	The system should ensure consistent availability and accurate data loading every time the dashboard is accessed.
NFR-4	Performance	Dashboards must load quickly (under 3 seconds) and run smoothly even with large datasets.
NFR-5	Availability	The dashboards and reports should be accessible 24/7 with minimal downtime or disruptions.
NFR-6	Scalability	The system should support growing data volumes and allow for adding new data sources or filters in the future.

3.3 Data Flow Diagram

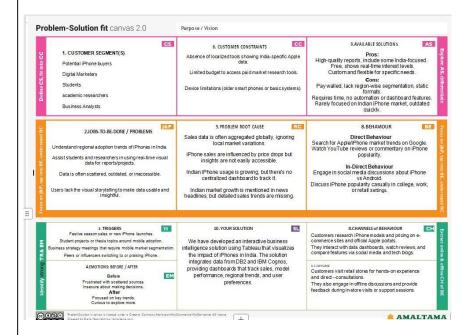


3.4 Technology Stack Technical Architecture



4. PROJECT DESIGN

4.1 Problem Solution Fit



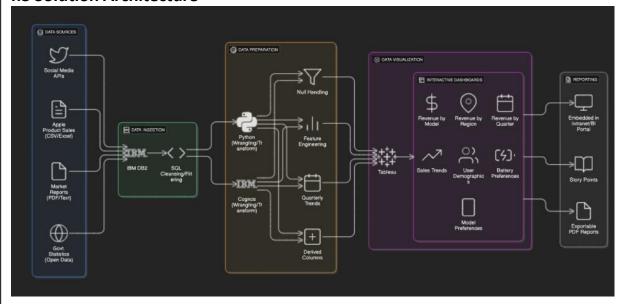
4.2 Proposed Solution

Proposed Solution Template:

Project team shall fill the following information in the proposed solution template.

lo.	Parameter	Description
1.	Problem Statement (Problem to be solved)	There is a lack of India-specific insights on how Apple's iPhones perform across different quarters,
		models, and regions. Stakeholders face difficulty making data-backed decisions due to scattered and
		generalized global data. A focused dashboard can help identify customer behavior, sales trends, and
		model preferences in India.
2.	Idea / Solution description	We designed an interactive Tableau dashboard using product data like model names, prices, battery
		types, sales share, and revenue.
		The dashboard allows users to filter by quarter, region, or model and analyze the evolution of iPhone
		impact in India.
		Data is sourced from DB2 and processed via Cognos to ensure accuracy and real-time updates.
3.	Novelty / Uniqueness	Our solution connects product-level attributes with customer behavior in an India-specific context.
		2. Most existing tools show global or generalized trends, while ours zooms in on regional insights.
		3. It uniquely combines visual storytelling with sales and technical specifications of Apple iPhones.
4.	Social Impact / Customer Satisfaction	This project helps users understand which iPhone models suit which customer segments across India.It
		supports better product positioning and customer engagement strategies. The insights can reduce
		marketing waste and improve satisfaction by meeting real user needs.
5.	Business Model (Revenue Model)	We can offer the dashboard as a paid subscription service to marketing agencies and tech analysts.
		Customized reports can be generated for regional smartphone vendors or Apple resellers.
		Freemium models with basic access and premium features can also be considered.
6.	Scalability of the Solution	he dashboard can scale to include other Apple products like iPads or MacBooks.
		It can also be expanded to analyze competitor brands or additional countries.
		Automated data pipelines and filters allow flexible additions without redesigning the core.

4.3 Solution Architecture



5. PROJECT PLANNING & SCHEDULING

5.1 project planning

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Data Collection	USN-1	Download iPhone sales data from reliable sources	3	medium	N sandeep
Sprint-1		USN-2	Collect user opinions or reviews about iPhones	3	medium	N sandeep
Sprint-1	Data preprocessing	USN-3	Handle missing values in the dataset	4	High	J snehalatha
Sprint-1		USN-4	Standardize currency and date formats	3	Medium	J snehalatha
Sprint-2	Data vizualization	USN-5	КРІ	2	medium	A kalpana
Sprint-2		USN-6	Model Specification	2	medium	A kalpana
Sprint-2		USN-7	Battery type distribution	2	medium	A kalpana
Sprint-2		USN-8	Brand Price Comparsion	1	low	A kalpana
Sprint-2		USN-9	Model Share	1	low	A kalpana
Sprint-3		USN-10	Country wise best selling smartphone	1	low	A kalpana
Sprint-3		USN-11	KPI year wise	1	low	A kalpana
Sprint-3	Dashboard Building	USN-12	Creating Dashboard-1	1	low	A kalpana
Sprint-3		USN-13	Creating Dashboard-2	1	low	A kalpana
Sprint-4	Story	USN-14	Creating Story 1	1	low	A kalpana
Sprint-4		USN-15	Creating Story 2	1	low	A kalpana
Sprint-4	publishing	USN-16	Publish final dashboard to Tableau Public and web integration	7	high	Sk aseer basha

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	13	3 Days	19 july 2025	21 july 2025	13	21 july 2025
Sprint-2	8	3 Days	21 july 2025	23 july 2025	8	23 july 2025
Sprint-3	4	2 Days	23 july 2025	24 july 2025	4	24 july 2025
Sprint-4	9	2 Days	24 july 2025	26 july 2025	9	26 july 2025

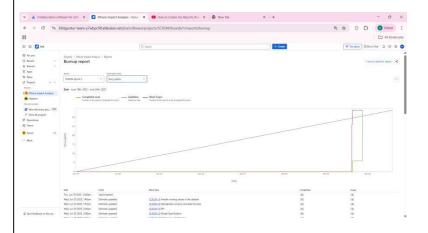
Velocity:

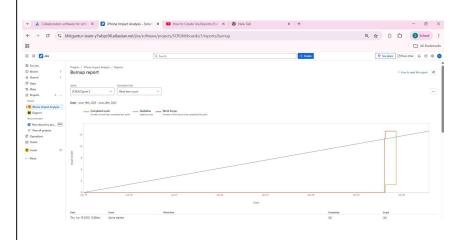
Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

Sprint	Total Story points	Duration(days)	Velocity(AV)
Sprint-1	3+3+4+3=13	3 Days	13%2= 6.5 per/day
Sprint-2	2+2+2+1+1=8	3 Days	8/3=2.66 per/day
Sprint-3	1+1+1+1=4	2 Days	4/2=2 per/day
Sprint-4	7+1+1=9	2 Days	9/2=4.5 per/day

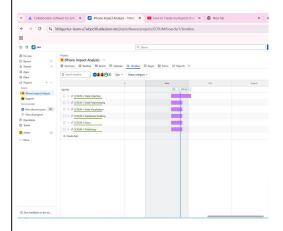
Burndown Chart:

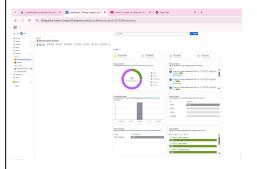
A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.







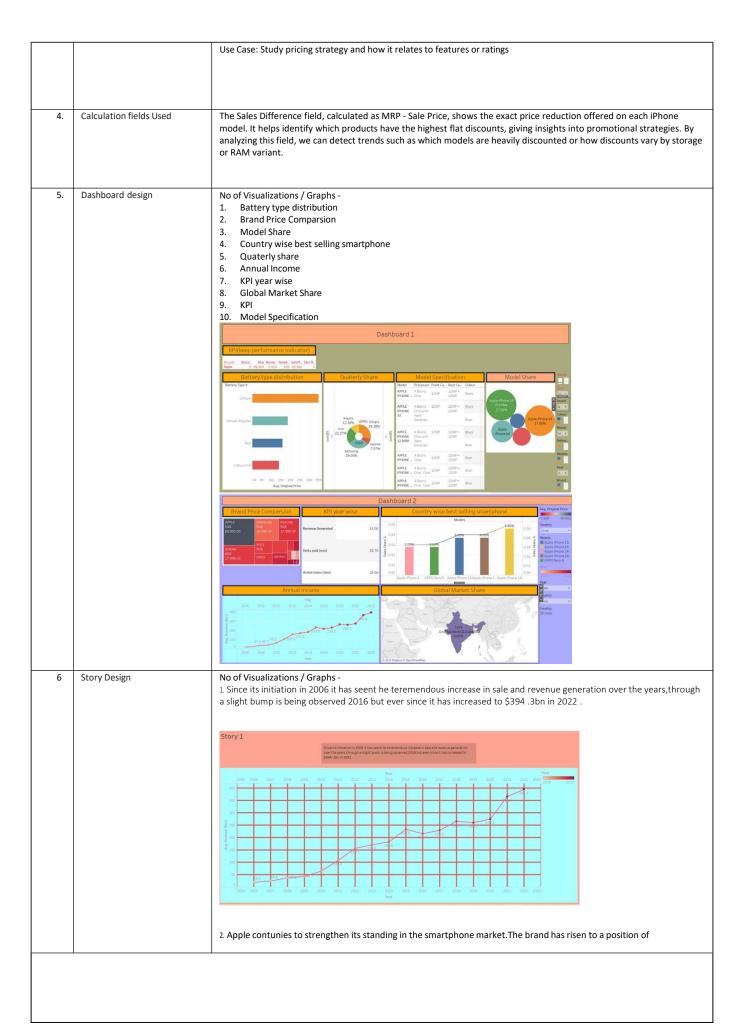




6. FUNCTIONAL AND PERFORMANCE TESTING

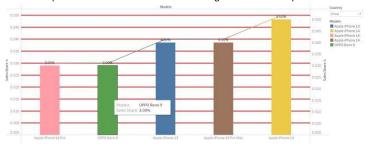
S.No.	Parameter	Screenshot / Values	
1.	Data Rendered	The Dataset which is used in this project is based on Apple Iphone sales in india was curated from publicly available	
		sources that reflect real-world market data for Apple products in India, it was supplemented with like "iPhone Sales by	
		State," "Launch Timeline," "Platform Comparison," and "Market Share Insights," to enrich the analysis. The Dataset	
		Contains of Total 836 rows and 16 columns.The following are key attributes which are in dataset	
		Key attributes:	
		1. Product name-The name of the iPhone variant listed (e.g., iPhone 13 Pro Max 128GB Blue).	
		2. Product price-The listed or discounted price of that specific iPhone on eCommerce platforms.	
		3. Battery Type	
		4. Models-Different variants of Apple iphone	
		5. Sales share	
		6. Country	

		T		
		7. Quarter 8. Revenue		
		A B C V Dec F G A Product Unit Snand V Sale Price V Mp V Discount Percental V Number Of Rev V Upc V Star Ratin V Ram		
		APPLE iPhone 8 Plus (Sp. https://www.fil Apple 49900 49900 0 3431 335 MOBEXRGV/TEHH 4.6 2 GB APPLE iPhone 8 Plus (Sp. https://www.fil Apple 84900 0 3431 335 MOBEXRGV/CET 4.6 2 GB APPLE iPhone 8 Plus (Sil) https://www.fil Apple 84900 0 3431 336 MOBEXRGV/CET 4.6 2 GB		
		APPLE iPhone 8 (Silver 2 https://mov.fil Apple 77000 77000 0 11202 734 MOBENROVIZZW 4.5 2 GB APPLE iPhone 8 (Puls 2 https://mov.fil Apple 77000 77000 0 11202 734 MOBENROVPKTP 4.5 2 GB APPLE iPhone 8 Puls (Silv https://mov.fil Apple 49000 0 3431 356 MOBENROVCOV 4.6 2 GB		
		APPLE (Phone 8 Plus (50 <u>https://www.fl</u> Apple 49900 49900 0 3431 350 MOBERROVCHSF 4.5 2 GB APPLE (Phone 8 (Space Chi <u>tagkwwn.fl</u> Apple 0 77000 0 11302 794 MOBERROVCHSF 4.5 2 GB APPLE (Phone 8 (Space Ch <u>itagkwwn.fl</u> Apple 0 77000 0 11302 794 MOBERROVCHSF 4.5 2 GB		
		APPLE IPhone X5 Max (S <u>https://www.ft</u> Apple 89900 0 1454 149 MOBPP44EZXAFN 4.0 4 GB Apple iPhone X7 (RPGOU, <u>https://www.ft</u> Apple 41999 52900 20 79912 6796 MOBPPZTZCHOCZ 4 64 GB		
		Apple IPhone XR (Blleck Thiss://www.fil Apple 39898 47900 16 79512 6796 MORPRZZEPHGV 4.6 4 GB Apple IPhone XR (Close). Infract//www.fil Apple 41999 52900 20 79582 6064 MORPRZZEPHGV 4.6 4 GB Apple IPhone XR (Black Thiss://www.fil Apple 41999 52900 20 79512 6796 MORPRZZEYMRY 4.6 3 GB		
		Apple iPhone XR (Mhile, <u>https://www.fl.apple</u> 41999 52900 20 79512 6796 MOBPSZ7ZZY3HC 4,6 4 0B APPLE iPhone 11 Phon Ma <u>https://www.fl.apple</u> 131900 0 1078 101 MOBPKC73THCH 4,7 4 0B		
		APPLE iPhone 11 Pm Ma https://www.fi Apple 117100 117100 0 1076 101 MGPR/CTSAPAY 4.7.4 GB APPLE iPhone 11 Pm Ma https://www.fi Apple 131800 131800 0 1078 101 MGPR/CTSKCMAK 4.7.4 GB APPLE iPhone 11 Pm Ma https://www.fi Apple 117100 0 1078 101 MGPR/CTSKCMAK 4.7.4 GB		
		APPLE (Phone 11 Pro (Mt Intest/www.fi Apple 74999 106600 29 7088 523 MOBPCTSNATO 4.6 4.08 APPLE (Phone 11 Pro (6) Intest/www.fi Apple 117900 116000 15 7088 523 MOBPCTSNATO 4.6 4.08 APPLE (Phone 11 Pro (6) Intest/www.fi Apple 117900 117900 15 7088 523 MOBPCTSNATO 4.6 4.08		
		APPLE Phone 11 Pro Ma https://www.fil. Apple 117/00		
		Apple iPhone SE (White: <u>https://www.fit.</u> Apple 44999 54900 18 95909 8161 MOSFRFXHPZCH 4,5 2 GB APPLE iPhone 12 Pro Gill interativow.fit. Apple 140900 6 542 42 MOSFRWYZSHV 4,5 4 GB APPLE iPhone 12 Pro Ma https://www.fithople 139900 6 580 45 MOSFRWZSTSLV 4,6 GB		
		APPLE Phone 12 Nini (M. https://www.fil. Apple 120900 139900 0 080 40 M/OP-WPS 7269 1,4 4,5 0 GB APPLE Phone 12 Nini (M. https://www.fil. Apple 64900 74900 13 740 64 M/OPFWS 726X 2,4 4,5 4 GB APPLE Phone 12 Pin (Gr. https://www.fil. Apple 120900 120900 6 545 42 M/OPFWS 726X 3,5 GB		
		APPLE IPPone 12 Mini (Nthes/www.ft Apple 59900 59900 14 740 64 MOBPW87/28H4C 4.9 4 GB APPLE IPPone 12 White, Intarkwwith Apple 59900 54900 10 2101 180 MOBPW87/28T2F 4.9 6 GB		
		APPLE Phone 12 Pro (a https://www.fil. Apple 119890 7 545 42 MOSPAY2EZFV 4.5 6 B APPLE Phone 12 Pro Ma https://www.fil. Apple 139890 6 580 45 MOSPAY2EFSV 4.6 6 B APPLE Phone 12 Pro Ma https://www.fil. Apple 129890 6 580 45 MOSPAY2FDGC 4.6 6 GB		
		APPLE (Prone 12 Mini (<u>Bhites/rowesti</u> Apple 64900 74900 13 730 83 MORPWS/ZHGAM 4,5 4 GB APPLE (Prone 12 Mini (<u>Bhites/rowesti</u> Apple 64900 74900 13 730 83 MORPWS/ZHGAM 4,5 4 GB APPLE (Prone 12 Mini (<u>Bhites/rowesti</u> Apple 64900 74900 13 730 83 MORPWS/ZHGAM 4,5 4 GB		
		APPLE Phone 12 Black Black Black		
		APPLE iPhone 12 Mini (<u>R. https://www.fl.ii</u> Apple 59900 69900 14 740 64 MOBPNBYZYVVX 4.5 6 GB APPLE iPhone 12 For Ma <u>Philips Word 12 For Ma Philips Word 14 For Management 12 For Ma Philips Word 14 For Management 12 For Ma Philips Word 14 For Management 12 For Management 14 For Ma</u>		
		APPLE iPhone 12 (Green, https://ener.fil/ Apple 75800 84900 10 2082 178 MOSFNRYZOXUE 4.6 6 GB APPLE iPhone 12 For (Pa https://ener.fil/ Apple 149900 6 545 42 MOSFNRYZTEX 4.5 4 GB APPLE iPhone 12 White https://ener.fil/ Apple 179900 11 2101 180 MOSFNRYZTA33 4.6 6 GB		
2.	Data Preprocessing			
_ ^{∠.}	Data Preprocessing	The following steps are done during the data pre processing 1. Handling Missing Values		
		We inspected the dataset for null or missing values in key columns such as Sale Price, MRP, Ratings, and Reviews.		
		For numerical fields like Sale Price or MRP, rows with missing values were dropped, as pricing is critical to the analysis.		
		For optional fields like Star Rating or Number of Reviews, missing values were either filled with the median or zero,		
		depending on context.		
		3 Pata Classing		
		2. Data Cleaning Removed duplicate rows to avoid bias in visualizations.		
		Standardized formats:		
		Converted Ram from strings like "2 GB" to integer 2.		
		Ensured all price-related columns (Sale Price, MRP) are in numeric format.		
		Trimmed extra spaces and unified casing for text fields like Product Name or Brand.		
		3. Feature Engineering		
		Created new fields to enhance insights: Sales Difference = MRP - Sale Price to measure discount amount.		
		Discount Percentage = ((MRP - Sale Price) / MRP) * 100 to analyze percentage discount.		
		Derived RAM category r grouped analysis.		
		Extracted Storage size from Product Name using text parsing.		
		4. Data Type Conversion		
		Converted all numerical features (Ratings, Prices, Reviews) to appropriate numeric types. Date fields (if any) were converted to datetime format for time-based analysis.		
3.	Utilization of Filters	Below are the following filters used in the dashboard creating		
"	- C241.011 G. 1 H.C.13	1. Brand Filter		
		Type: Categorical filter (single or multiple select)		
		Field Used: Brand		
		Purpose: Restrict the dataset to Apple products only		
		Use Case: Ensure the analysis focuses solely on Apple devices by excluding other brands if present		
		2. RAM Filter		
		Type: Categorical or grouped filter (e.g., 2GB, 4GB, 6GB)		
		Field Used: RAM		
		Purpose: Segment iPhones based on memory capacity		
		Use Case: Analyze how performance, price, or user ratings vary by RAM size		
		3. Sales Difference Filter Type: Numeric range slider		
		Type: Numeric range slider Field Used: Sales Difference (MRP - Sale Price)		
		Purpose: Highlight devices with significant price cuts		
		Use Case: Identify aggressively discounted models to study marketing strategies		
		4. Star Rating Filter		
		Type: Numeric range slider		
		Field Used: Star Rating		
		Purpose: Focus on customer-rated products Use Case: Explore how product popularity and sales are influenced by user feedback		
		ose case. Explore now product popularity and sales are illinatived by user regulation		
		5. Price Range Filter		
		Type: Numeric range slider		
		Fields Used: Sale Price, MRP		
		Purpose: Compare product segments (budget vs premium)		





3. Comparative analysis amogst various other leading brands in the smartphone industry shows that iphone is yet to make its impact in India.ITS 3% market share in the global market is depicted in the line-bar graph.



4. More than 1 billon consumers currentlu use iphones . Since its intial launch more than 1.9 billon iphones have been sold iphone sales in 2021 surpassed the 2015 peak, but declined in 2022 to 232.2 million units

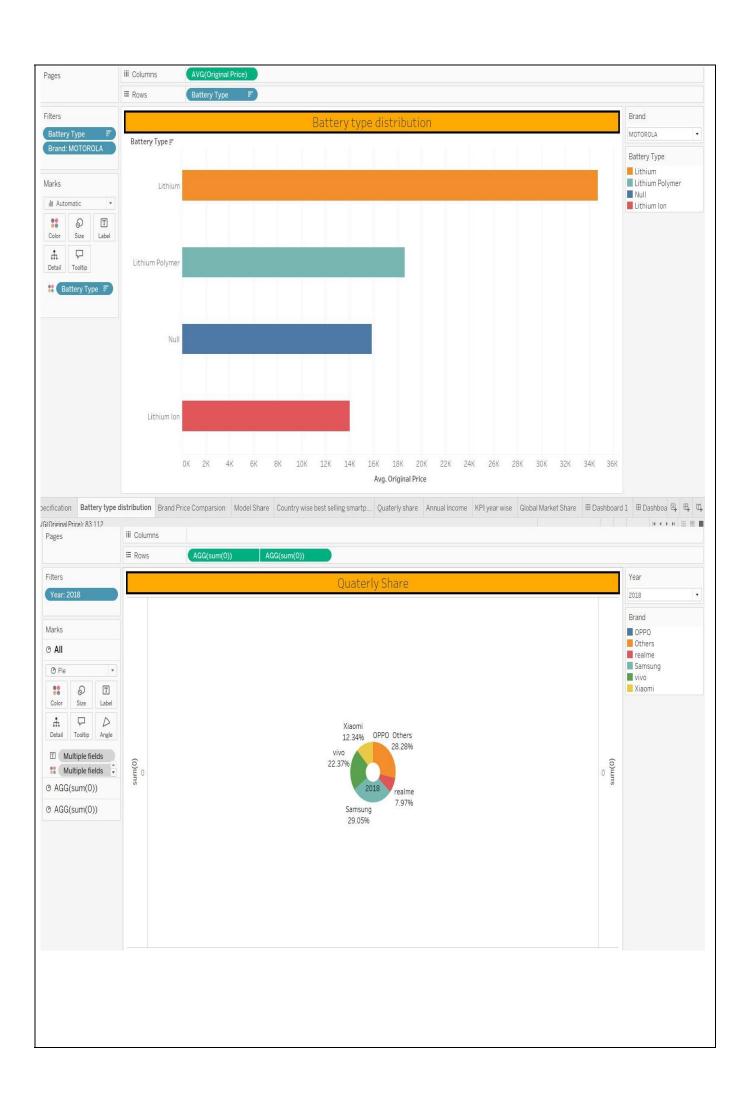


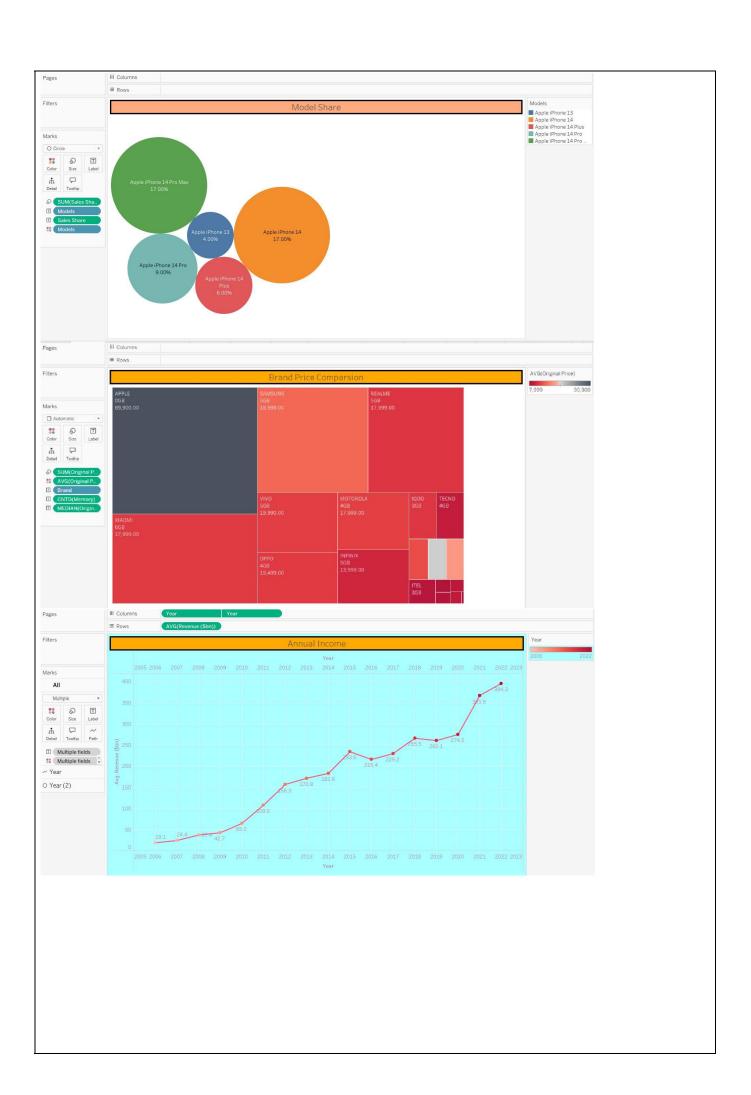
5. Although the iphone isnt far behind in the competition, it is yet to scale-up its marketing strategies and policy formulations for Indian audience.

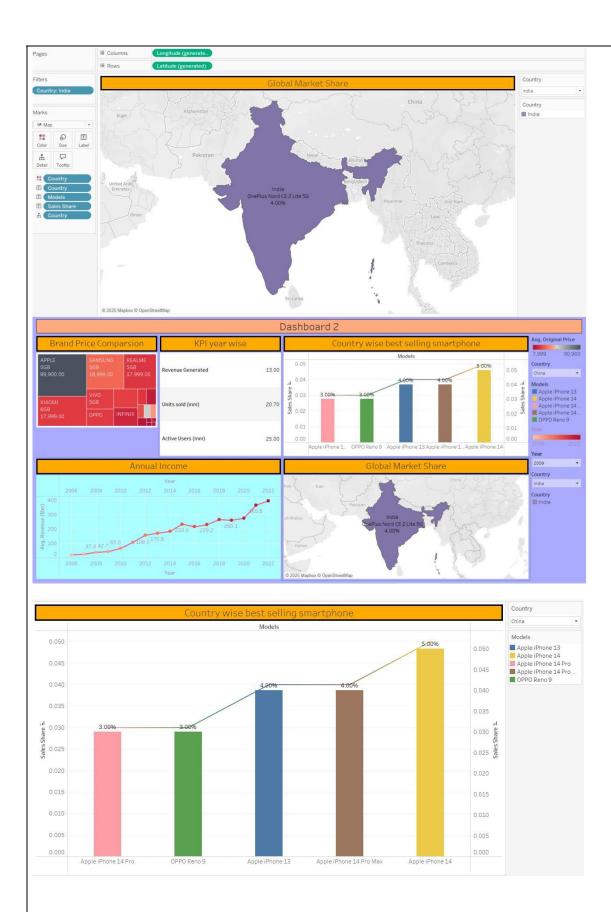


7. RESULTS

7.1 Output Screenshots







8. ADVANTAGES & DISADVANTAGES

Advantages:

- 1. Data-Driven Insights: Provides clear, evidence-based understanding of Apple's iPhone performance in India.
- 2. Interactive Visualization: Tableau dashboards make complex data easy to interpret for all users.
- 3. Strategic Value: Helps stakeholders identify trends, opportunities, and potential market gaps.
- 4. Scalability: The analysis framework can be extended to other brands or regions for comparative studies.

Disadvantages:

- 1. Data Limitations: Incomplete or outdated data sources may affect the accuracy of insights.
- 2. Tool Dependency: Heavy reliance on Tableau may limit flexibility for users unfamiliar with the tool.
- 3. Lack of Real-Time Data: The analysis is static and may not reflect the most current market conditions.
- 4. Interpretation Bias: Visualizations can sometimes lead to oversimplified or misinterpreted conclusions if not contextualized properly.

9. Conclusion

The iRevolution project successfully highlights the significant role Apple's iPhone has played in shaping India's smartphone market through a comprehensive, data-driven approach. By utilizing Tableau to analyze and visualize key metrics—such as sales trends, pricing strategies, and model popularity—the project offers meaningful insights into Apple's evolving presence in India. These insights can support strategic planning, market understanding, and informed decision-making.

10. Future Scope

- 1. Real-Time Data Integration: Incorporating APIs or live dashboards for dynamic, up-to-date analysis.
- 2. Predictive Analytics: Applying machine learning models to forecast future sales trends and market share.
- 3. Comparative Analysis: Expanding the study to include competitors like Samsung, Xiaomi, and OnePlus for deeper industry insights.

11. APPENDIX

Source code:

```
<!DOCTYPE html>
<html>
<head>
 <script src="https://public.tableau.com/javascripts/api/viz_v1.js"></script>
 <style>
  body {
  font-family: Arial, sans-serif;
    margin: 0;
padding: 20px;
background: #f2f2f2;
    text-align: center;
    color: #2c3e50;
  .nav {
    margin-bottom: 20px;
  .nav a {
    display: inline-block;
background-color: #007acc;
color: white;
    padding: 10px 20px;
text-decoration: none;
    border-radius: 5px;
    margin: 5px;
transition: background 0.2s;
  .nav a:hover { background-color: #005f99;
  }
    color: #444;
  .tableauPlaceholder { margin-top: 20px;
    width: 100%;
    height: 1000px;
 </style>
</head>
 <h1>iRevolution: a data-driven exploration of apple's iphone impact in india</h1>
  <a href="?view=dashboard1">Dashboard 1</a>
<a href="?view=dashboard2">Dashboard 2</a>
<a href="?view=story1">Story 1</a>
<a href="?view=story2">Story 2</a>
 </div>
 <div id="content">
  <!-- Dashboard loads here -->
 </div>
 <script>
  const views =
    { dashboard1: {
    name: "iphoneimpactinindia_17508008627440/Dashboard1",
    title: "Dashboard 1"
    },
dashboard2: {
     name: "Mydashboard-2_17508009522640/Dashboard2",
      title: "Dashboard 2"
   },
story1: {
name: "story-1_17508010401380/Story1",
title: "Story 1"
    story2: {
name: "story-2_17508011813840/Story2",
title: "Story 2"
```

```
const params = new URLSearchParams(window.location.search);
   const view = params.get("view");
   if (views[view]) {
    const viz = views[view];
    document.title = viz.title;
    document.getElementById("content").innerHTML = `
     <h2>${viz.title}</h2>
<div class="tableauPlaceholder">
       <object class="tableauViz" width="100%" height="1000px">
<param name="host_uri" value="https%3A%2F%2Fpublic.tableau.com%2F">
        <param name="embed_code_version" value="3">
        <param name="site_root" value=""</pre>
        -
param name="name" value="${viz.name}">
        <param name="tabs" value="no">
        -
cparam name="toolbar" value="yes">
       </object>
      </div>
  } else {
    document.getElementById("content").innerHTML = "Please select a dashboard or story above.";
}
</script>
</body>
</html>
```

Dataset Link:

 $\frac{https://docs.google.com/spreadsheets/d/1p1ZWaYcEuFl5UNFcmNvpkXi3JnoHamut/edit?gid=187744646487}{487\#gid=1877446487}$