Engloring the Cosmos: - Analysving ISRO's Missoon Launches with Power Bit Report. actions there of jection. It has substitute

Report Objectives:

This suport provides an indepth analysis of ISRO's space missions focusing on various key metries and trends. The dashboard was designed to be simple, elegant and easy to read, allowing stakeholders to quarkly grasp the insight presented.

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The report covers the following aspects:

- · Total memons and sucers rate
- · Orbat types

  · Applications of monitons.
- · Year wise trend analysis.

Key Webrits :-

The key metrics section Summarizes the overall performance of Isrds nuisions. These retries pravide a snapshot of the data and highlight the organizations success in space explorations:

Total missions: 102

- This represents the total no: 9 space missions launched · Successful minions: 95
- This indicates the number 9 missions that were sucenful. de monstrating ISRO's high lucin rate in its Space endeavors.

- · Unsuccessful launches! 7 This indicates the number of missions that did not acheeve their objective. It helps to contextualize the success rate and areas for potential improvement.
- EDNOT P argieno Hospini no saturary troque sulle · Number 9 tourch Vehicles: 102 This metric provides insight into the number 9 different launch vehicles utilized by ISRO, indicating the variety and capability 3 its launch technology.
- · Types of orbits: 7

This metric showcases the diversity in the types of orbits targeted by Isko's missions, reflecting the organization's versability in diploying satetites for Vanous purposes.

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## Visuals And their Englanations :-

- 1. Total menons by Year and mission Status:
- · Purpose: This visual is a line chart that depicts the trends of Isko mission launched each year and their status (successful or Unsuccessful).
- and growth for ISRO. Peaks in the Chart indicate years with higher number of launches, which may correspond to Significant projecto or advancements in ISRO's Capabilitées.
- · Visual type: line chart Selected for its ability to clearly show trends over time.

- Mission States by Orbit type :-Purpose - This pie chart virualizes the distribution of missione based on the types of orbits they largeted, as well as the status of these missions.
- Analysis. The pie chart provides a Clear Understanding of how different orbit types contribute to Isro's overall mission portfolio. It also indicates the success rates for each orbit type, which can be valuable for strategic planning.
- q different orbit types and their associated mission status.
- 3. Total mossions by orbot type and launch Vehicle:
- ges the relation ship between orbit types and launch vehicles used for these missions.
- Analysis By analyzing this chart, one can see the compositivity of different launch while with various orbit type. This information can be cratical for future mission planning and vehicle development.
- · Viewal type: Stacked Bar Chart Chosen to Compare different orbibl types while showing the Contribution of each launch vehicle.

the report, based on the IERD's Space White format.

## 4. Applications q Missions:

- on g Isro's missions, such as Earth Observation, Paneloug Engloration and others.
- Analysis: The chart provides viringhts into ISRO's strate-gic priorites by showing how to focus on different applications has evolved.
- has evolved.

  Visual type: time chart Used to track changes in mission applications over time.

## 6. launch nurson Analysis by Year:

- applications, the count of lauch vehicles, and the total marions by year.
- Analysis The Chart is useful for Comparing the volume of different norman applications year by year; officing ineights to how ISRO's mixion portfolio has expanded or shifted focus over time
- shifted focus over time

  Visual type: Donut Chart Selected for its ability to

  Show proportions within categories over time.

## Conclumon:

This suport, based on the ISRO's Space Mission Analysis, effectively distills complex data into an accessible formal. By using clear visuals and Coneise emplainations, the dash-by using clear visuals and Coneise emplainations, the dash-board provides a Comprehensive overview of ISRO's space mission activities.