Executive SummarySlide

- Briefly summarize the project objectives, methodology, and key results.
- Example: "This project explores SpaceX launch data to understand mission outcomes, visualize trends, and predict future results.
- We performed EDA, SQL analysis, and machine learning to gain insights and build predictive models."

Introduction Slide

Introduce the problem and its significance.

Explain why the analysis is important.

Example: "Space exploration is rapidly evolving. This project analyzes SpaceX's launch data to uncover insights, trends, and predictive capabilities that contribute to cost-efficient space missions."

Data Collection and Data Wrangling Methodology Slides

Describe the data sources (e.g., SpaceX API, Kaggle datasets).

Mention the steps for cleaning and transforming the data.

Example:

- Collected data from SpaceX API.
- Cleaned and handled missing values in columns like landingPad.
- Applied one-hot encoding for categorical variables.

EDA and Interactive Visual Analytics Methodology Slides

Describe the exploratory data analysis process.

Mention interactive visualizations used (e.g., Folium maps, Plotly).

Example: "Explored launch outcomes, payload masses, and booster versions using Python libraries like Matplotlib, Seaborn, and Plotly. Created interactive maps to visualize launch site locations."

Predictive Analysis Methodology Slide

Describe the predictive analysis approach.

Mention the algorithm used (e.g., logistic regression, decision trees).

Example: "Used classification models to predict mission success based on features like payload mass, orbit, and booster version."

EDA with Visualization Results Slides

Present key insights with visuals (bar charts, scatter plots, etc.).

Highlight trends, such as:

- Booster version success rates.
- Payload mass impact on mission outcome.
- Launch site frequencies.

Include brief descriptions of each chart

EDA with SQL Results Slides

- Show SQL queries and results for key questions:
- Example: "SELECT MIN(payload_mass_kg) FROM SPACEXTBL".

Explain findings, such as the launch site with the highest success rate or the heaviest payload launched.

Interactive Map with Folium Results Slides

- Include screenshots of the Folium map showing:
 - Launch sites.
 - Success or failure of missions.
- Briefly explain what the map shows.

Plotly Dash Dashboard Results Slides

Add screenshots of your Plotly Dash app.

Describe key features, such as dropdown filters, interactive graphs, or real-time updates.

Predictive Analysis (Classification) Results Slides

Present the performance of your machine learning model:

- Accuracy, precision, recall.
- Confusion matrix.

Include a summary of the results and their implications.

. Conclusion Slide

Summarize key findings.

Mention potential applications and future improvements.

Example: "This analysis highlights the factors influencing mission success. Future work could integrate more data or advanced machine learning techniques for better predictions."

Creativity and Innovation

Ideas:

- Use custom design templates, icons, and animations.
- Include unique insights or observations not explicitly required.