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theia@theiadocker-anitaj: /home/project ×
  theia@theiadocker-anitaj:/home/project$ python3.8 -m pip install pandas dash
  Defaulting to user installation because normal site-packages is not writeable
  Collecting pandas
    Downloading pandas-1.5.3-cp38-cp38-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (12.2 MB)

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  Collecting dash
    Downloading dash-2.8.1-py3-none-any.whl (9.9 MB)
  Requirement already satisfied: pytz>=2020.1 in /home/theia/.local/lib/python3.8/site-packages (from pandas) (2022.1)
  Requirement already satisfied: python-dateutil>=2.8.1 in /home/theia/.local/lib/python3.8/site-packages (from pandas) (2.8.2)
  Collecting numpy>=1.20.3
    Downloading numpy-1.24.2-cp38-cp38-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (17.3 MB)
                                                                   17.3/17.3 MB 36.6 MB/s eta 0:00:00
  Collecting dash-html-components==2.0.0
    Downloading dash_html_components-2.0.0-py3-none-any.whl (4.1 kB)
  Collecting plotly>=5.0.0
    Downloading plotly-5.13.1-py2.py3-none-any.whl (15.2 MB)
  Collecting dash-core-components==2.0.0
    Downloading dash_core_components-2.0.0-py3-none-any.whl (3.8 kB)
  Collecting dash-table==5.0.0
 Downloading dash_table-5.0.0-py3-none-any.whl (3.9 kB)
Requirement already satisfied: Flask>=1.0.4 in /home/theia/.local/lib/python3.8/site-packages (from dash) (2.2.2)
Requirement already satisfied: importlib-metadata>=3.6.0 in /home/theia/.local/lib/python3.8/site-packages (from Flask>=1.0.4->da
  (4.12.0)
  Requirement already satisfied: Werkzeug>=2.2.2 in /home/theia/.local/lib/python3.8/site-packages (from Flask>=1.0.4->dash) (2.2.2
 theia@theiadocker-anitaj: /home/project ×
 theia@theiadocker-anitaj:/home/project$ python3.8 spacex_dash_app.py
 spacex_dash_app.py:4: UserWarning:
 The dash_html_components package is deprecated. Please replace
  `import dash_html_components as html` with `from dash import html`
   import dash_html_components as html
  spacex_dash_app.py:5: UserWarning:
 The dash_core_components package is deprecated. Please replace
  import dash_core_components as dcc` with `from dash import dcc`
    import dash_core_components as dcc
 Dash is running on http://127.0.0.1:8050/
   * Serving Flask app 'spacex_dash_app'
 * Running on http://127.0.0.1:8050 Press CTRL+C to quit

    You should see a nearly blank web page indicating a successfully running dash app.
    Next, let's fill the skeleton app with required input/output components and callback functions

If you need to refresh your memory about Plotly Dash compo
you may refer to the lab you have learned before:
TASK 1: Add a Launch Site Drop-down Input Component
We have four different launch sites and we would like to first see which one has the largest success count. Then, we would like to select one specific site and check its detailed success rate (class=0 vs. class=1).
As such, we will need a dropdown menu to let us select different launch sites.

• Find and complete a commented acc.aropdom(id='stre-dropdom',...) input with folic
    and and complete a commented dcc.tropones(is*-tits-dropone)....) input with following attributes:
-sa attribute with value ris-cropones
-gates attribute is a list of dict-like option objects (with tast and value attributes). You can set
the tast and value all to be the launch site names in the space, or
and you need to include the default att option.og.
  1. 1
2. options={{'label': 'All Sites', 'walue': 'ALL'},{'label': 'sitel', 'walue': 'sitel'}, ...}
Copied!
    • value attribute with default dropdown value to be ML meaning all sites are selected
• placenoiser attribute to show a text description about this input area,
such as sletct a Lunch Site here
• warcanche attribute to be True so we can enter keywords to search launch sites
       SpaceX Launch Records Dashboard
TASK 2: Add a callback function to render success-pie-chart based on selected site dropdown
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a pie chart viumikinji planch success counts.

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     Next, we want to find if variable payload is correlated to mission outcome. From a disabboard point of view, we want to be able to easily select different payload range and see if we can identify some visual patterns.

Find and complete a commented ecc. Respectiser(ise-payload-stieer',...) input with the following attribute:
     TASK 4: Add a callback function to render the success-payload-scatter-chart scatter plot
RASA 4: AGG G CAIDBACK Function to render the success-payload-sc

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Note that whe have been been pide components, or in process and the colorier co
     the end of this lab.

Finding Inglights Visually

Now with the deatheast completed, you should be able to use it to analyse SpaceX Insuch data, and answer the follow

1. Which is the bat the import successful insuchan?

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3. Which polend arguingly has the impleted andon success rates?

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4. Which polend arguingly has the impleted insuch success rates?

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4. Which polend arguingly has the implete insuch success rates?
                Range slider (input) component

Refer here for more details about dcc.RangeSlider()
                Pie chart (output) component

Refer here for more details about plotly pie charts
     Author
          Other contributor(s)
     Changelog
                Date Version Changed by Change Description
20-09-2022 1.3 Laishmi Holla Updated screenshot.
29-08-2022 1.4 Laishmi Holla Updated screenshot.
09-09-2021 1.1 Laishmi Holla Added a note of the observation o
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