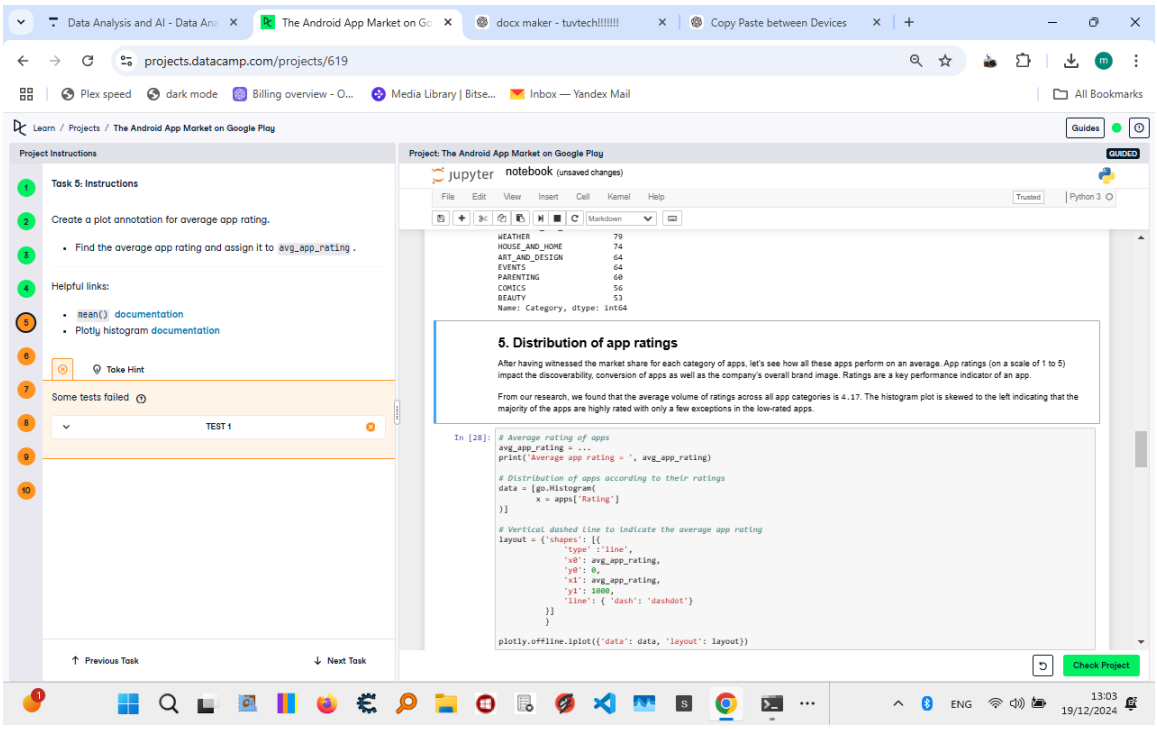

Google Play Store Analysis - Task 5

Task 5 Instructions

1. Calculate the average app rating and assign it to `avg_app_rating`.
2. Create a histogram that shows the distribution of app ratings.
3. Add a vertical dashed line to indicate the average app rating.
4. Use the `Plotly` library for visualization.

Correct Code Implementation

```
import plotly.graph_objs as go
import plotly.offline as pyo

# Step 1: Calculate the average app rating
avg_app_rating = apps['Rating'].mean()
print("Average app rating =", avg_app_rating)

# Step 2: Create a histogram for app ratings
data = [go.Histogram(x=apps['Rating'])]

# Step 3: Add a vertical dashed line for the average app rating
layout = {
    'shapes': [
        {
```

```
            'type': 'line',
            'x0': avg_app_rating,
            'x1': avg_app_rating,
            'y0': 0,
            'y1': 1000,  # Adjusted as per the data
            'line': {'dash': 'dashdot'}
        }
    ]
}

# Step 4: Combine the data and layout, and plot the figure
pyo.iplot({'data': data, 'layout': layout})
```

Explanation of the Code

1. **Calculate Average Rating**:
   - The `mean()` method computes the average value of the `Rating` column.
   - This value is stored in the `avg_app_rating` variable for further use.

2. **Histogram**:
   - A histogram is created using the `go.Histogram()` function, which plots the distribution of app ratings.

3. **Vertical Dashed Line**:
   - The `layout` dictionary specifies the dashed line at the `avg_app_rating` value.
   - `shapes` is used to define a line from `y0=0` to `y1=1000` with the average rating value as `x0` and `x1`.

4. **Plot the Visualization**:
   - The `pyo.iplot()` function is used to render the plot with the specified data and layout.