



Palestine Launchpad Program

Data Analysis NanoDegree



Our agenda for today

1

Recap about the last session

2

Project 2 Statistics

3

QA from Google form

4

Bar chart vs count chart

5

Solve the line chart notebook

6

Selenium web driver example

7

Bar Charts and Heatmaps

8

Case Study: Twjeehe 2024 dataset

Recap

What did we talk about last session

Last Session we covered the following:

- ☐ Progress checks v. program timeline
- ☐ Cohort 3 registration
- ☐ Project 3 Rubric
- ☐ Bivariant analysis – Line Chart
- ☐ NLP data processing

Last Session we agreed on the following:

To ensure you're keeping up, please:

- **Search for the difference between a count chart and a bar chart.**
- **Solve the notebook about the line chart** and remember that the dataset is uploaded on Google Drive.
- **Watch the lessons and stay on track** with the weekly schedule.
- **Start working on Project 3** and aim to submit Project 2 if you haven't already.

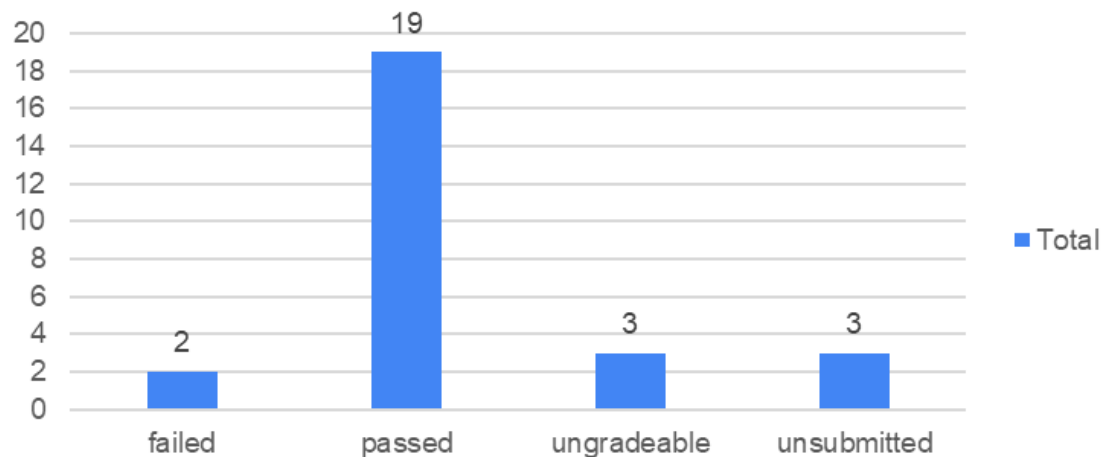
Project Two

Statistics about project two results



Count of Email

Project 2 Status



Result ▼

Project two Statistics

		Attempts	Avg attempt
Passed	19	49	2.6
Total	27	54	2.0
Interventions	8	5	0.6
Pass rate	70.37%		

Motivation

TextStudio

[Powerful Visuals.pdf](#)

[swipe.pdf](#)

Work smart
Improve daily
Never give up

Count vs Bar plot Analysis

Charts Types

Count plots and bar plots | Python (datacamp.com)

https://colab.research.google.com/drive/1_cdLLMa7vuLbZrz5mi5AHgAXMSQRYNCd?usp=sharing

Line chart exercise

→
Solution

1.Line Chart

Line Plot

https://colab.research.google.com/drive/1OI_OoFx8SGL_JVKdStQtLAzNZBJeiP-p?usp=sharing

Exercise

https://colab.research.google.com/drive/1K_IWcYo7SCSpg-qc-c6u4voLqfXpb6ch?usp=sharing

Solution

https://colab.research.google.com/drive/1dQABOfYteKn_rnEyO3crSmh1onJAf04Pk?usp=sharing

Data Gathering

→
Selenium WebDriver

Selenium WebDriver notebook

[web scraping using selenium.ipynb - Colab \(google.com\)](#)

Bivariate Analysis

Charts Types

Bivariate Exploration

1. Line Chart
2. Scatterplots - required
3. Box Plots - required
4. Clustered Bar Chart
5. Heatmap



Google Form Feedback and QA

What Problems did you face? Please write details.

- ☐ - I'm facing a little trouble with Faceting maybe we could talk about it to get used to it since it's a very new topic to me, such as when do I use it and how to interpret it.

- I think that I also have a hard time interpreting Multivariate visualization can we have examples of interpreting them, please?

- Can we also have some examples for the violin plots (examples of interpreting them).

What is the difference between correlation and causation when analyzing the relationship between two variables? And what is the best plot to visualize each one of them ?

Do you have any comments, notes, please let me

- ☐ About how to start work as data analyst, the starter point
- ☐ Just a note : As a weekly schedule we should today (1-8) finish Univariate Exploration of Data not Bivariate Exploration of Data as you said in the email.

Faceting Technique

- ❑ **Def.** A general visualization technique that's useful for handling plots with two or more variables.
- ❑ In faceting, data is divided into distinct subsets, typically based on different levels of a categorical variable.
- ❑ <https://colab.research.google.com/drive/1nuWGTAiQF5dK6BO-dYabxB10hQmUIw0i?usp=sharing>

Next Steps

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Let's get things started...

Second Project July 2, 2024

May

June

July

August

September

Strat working on Project three

1. Finish Part 1: Exploration
2. Start with part 2: Explanation

Today
July 6, 2024



Third Project Due
Date

August 27, 2024
- Communicate Data
findings



Program Period
May 9, 2024 - September 14, 2024

Thank You!

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And Good Luck!