Data Analysis Portfolio

Treat this section of your portfolio as the opening for your brand. It helps to write this section at the end, and to have a clear goal and audience in mind. Is this portfolio for a specific job or company?
In one or two sentences, describe your most relevant skills, unique experiences and other qualifications that make you the ideal candidate for the specific job.
Helpful Resource:
https://www.indeed.com/career-advice/career-development/guide-to-writing-a-bio-with-examples

Professional Background

Give the reader a brief look at your professional background. This section is similar to a cover letter that would accompany your CV or Resume. This should be a short but clear timeline of your education, training and career. Include the most critical accomplishments from each stage of your professional career to show the employer how you have progressed.

An effective and creative way to create this section is to include an infographic with a timeline of your career.

Approx. 1pg for people with a few years of work exp.
Grads & people entering the workforce for the first time might have shorter backgrounds and that's ok!

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Udemy Project Description

In this section you need to give the reader context for the report.

When you do this, use the STAR Method when describing the task to a potential employer:

STAR stands for:

- ***Situation:*** *Recall the situation you were in.*
  Hint: you were given a hypothetical situation where you are presenting Udemy course data. What kind of data did you start with?
- ***Task:*** *What was the purpose of this report? What problem were you trying to solve? What did you have to do with the data? Or, what question(s) did you set out to answer?*
- ***Action:*** *Outline actions you took. Mention any specific methodologies you used.*
- ***Result:*** *Describe the results you achieved. What conclusions were you able to draw from the data?*

https://www.thebalancecareers.com/what-is-the-star-interview-response-technique-2061629

Max. 1pg

The Problem

What is the business problem?

Business Problem is something we get when something really gets out of hand while managing and even the people with us or our business talks about solution to be got and not the way of how the problem is to be solved.

How long do you have to work on this project?

We have to work on this project until we get to the root of the problem and get a efficient solution.

What data should be collected to understand this problem? How should it be presented?

We need to collect the data such as what courses are in trend and what is the reason manager thinks web development course will go on trend are what topics are people interested to learn so that we could increase the prices of such courses to increase the revenue. Data is to be presented on a course revenue.

What questions would you ask to better understand the business problem?

Extra questions we would ask to solve the particular problem is " what are the on trend courses? " "when is the work to be submitted?" "Why and how do you think the manager thinks should we increase the revenue by increasing the prices on the courses?"

Design

In what state was the data in initially? What steps did you take to "clean" the data? What visualisation tools have you used to share the data and why?

Data initially was in the format where in it consisted of the redundant tables/rows and this caused complexity to take the data operations further.

1. CLEANING OF DATA:

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2) Removing blank cells

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- Click on the Filter icon at the top of any column, then click on Filter by condition and select 'is empty'.
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3) Headers

Ensure you have clear and concise names for headers and use dashes or underscores in between words to make it easier to parse later on.

4) Find and replace

If you examine the data, you will see that the Web Development subject title is not the same as other subject titles. Use the Find and Replace function to make the Web Development subject consistent with other subjects.
Edit > Find and Replace

2. VISUALIZATION TOOLS:

a. EXCEL

- Excel Pivot Tables and Charts

b.TABLEAU

REASONS FOR USING EXCEL :

It provides us best features to visualize the data in the lookup formats and the user customized data can be viewed using various functions and V-lookup.

- Pivot Tables for business decisions. On a day to day business we work with large amounts of business data.
- Using Formulas or Functions to analyze business data
- Manage lists or business records.
- Formatting of data and sheets for presentation or viewing.

REASONS FOR USING TABLEAU :

Tableau, a data visualization tool, offers new approaches to radically improve the ability to fetch hidden acumens. It leverages visual analytics that allows users to interact with data. Users can visually interact with data to get insights faster, and make critical decisions.

Findings

Identify your narrative and create a story that is easy to follow with your data

A good data story leverages three major components - Data, Narrative and Visuals. You should have already done most of the work for this in Module 5 of the program.

In your report you need to identify the key insights and visuals that communicate your data as efficiently as possible. You may need to write short paragraphs with each data set to communicate the narrative because, remember, your audience may not be people well-versed in Data Analytics.

Summarise your findings here, then create sections and subheads for each finding/data set. Your subheadings will vary depending on how you decided to tell your narrative in section 4.3. ***How you tell the story is up to you, but make sure that every graphic, every table, every visualisation addresses the problem that the report aims to solve.***

Finding 1

Subheadings are optional. You can decide whether you need to use them or not.

Figure 1: Sum of number of subscribers vs course title

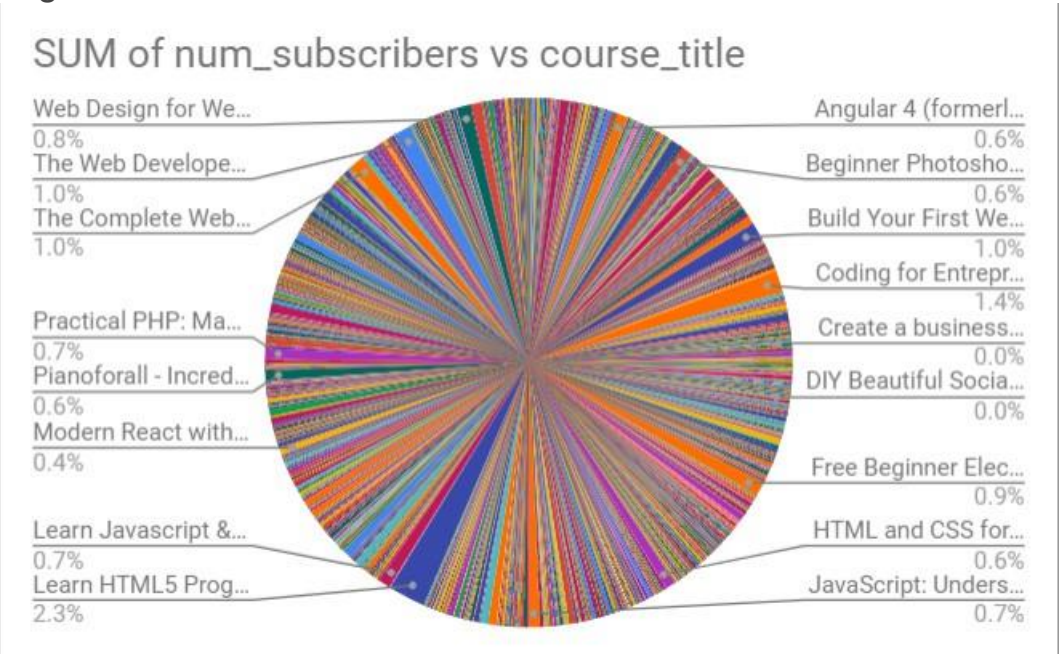
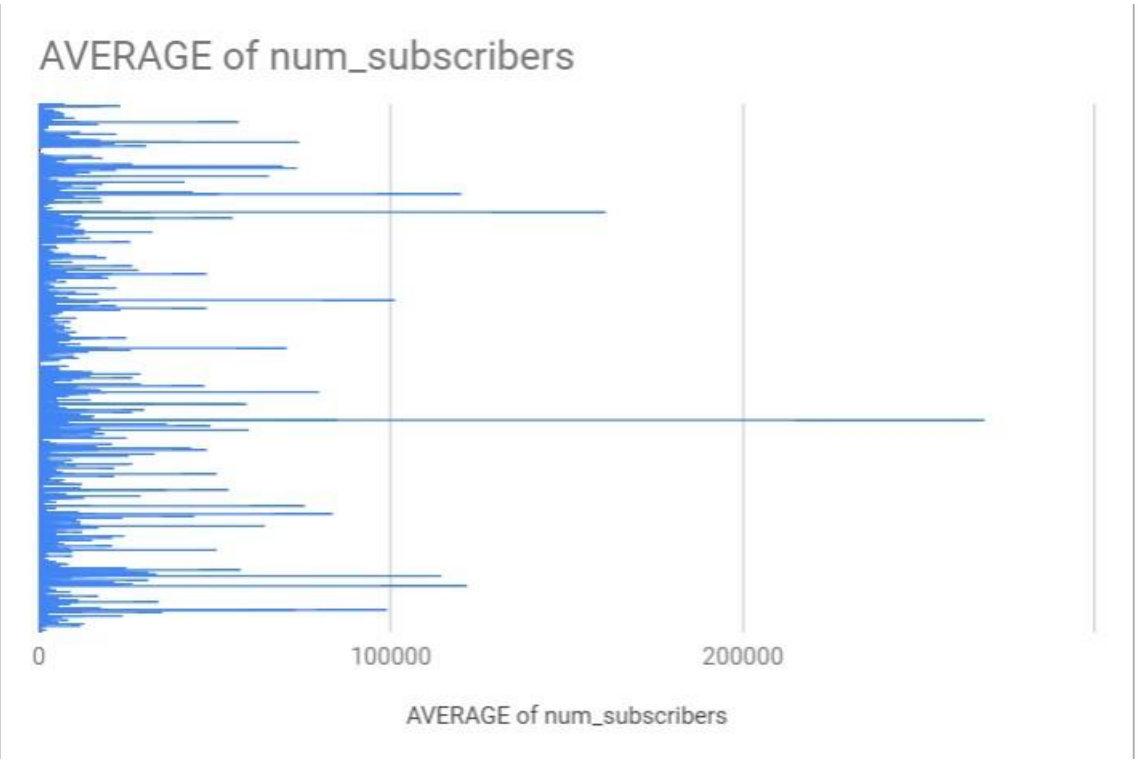


Figure 2: Average of number of subscribers



Finding 2

Subheadings are optional. You can decide whether you need to use them or not.

Table 2: Average of price vs level

level	AVERAGE of pri
All Levels	66.75324675
Beginner Level	65.24390244
Expert Level	58.01724138
Intermediate Lev	66.94312796
Grand Total	**66.11534276**

Table 3: Average of content duration vs course title

course_title	AVERAGE of content_duratio
:::Beginners Guide To Creating Amazing Images with Canva:::	1
Triunfar en La Bolsa de Valores No Requiere de Experiencia!	1
Value Investing] Where White People Keep Their Money	4
【１日でマスター！】今日からはじめる資産形成	1
【すぐに覚える！】ASALATO-アサラト(打楽器)初心者向け入門講座	0.5833333333
【個人事業主向け】青色申告の記帳を自力で行うための複式簿記の基本	3
' An Integrated Approach to the Fundamentals of Accounting	5.5
#1 Piano Hand Coordination: Play 10th Ballad in Eb Key songs	1.5
#10 Hand Coordination - Transfer Chord Ballad 9 - C & Bb Key	1
#12 Hand Coordination: Let your Hands dance with Ballad 9	1.5
#4 Piano Hand Coordination: Fun Piano Runs in 2 Beats C Key	1
#5 Piano Hand Coordination: Piano Runs in 2 Beats Eb Key	0.6166666667
#6 Piano Hand Coordination: Play Open 10 Ballad to 9/4 Song	0.7333333333
#7 Piano Hand Coordination: Play Piano Runs in 3 Beats 9/4	1
≪虎の巻≫証券取引の「税金のお悩み」解消	1.5
✔ Illustrator CC : Be a Graphic Designer in Illustrator CC	6.5
1 - Concepts of Statistics For Beginners Step by Step	0.5166666667
1 Hour CSS	1
1 Hour HTML	1
1 Hour JavaScript	1
1 hour jQuery	1
1. Principles of Simple Interest	1

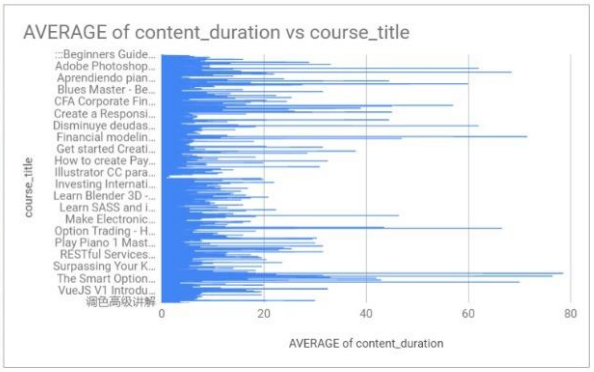
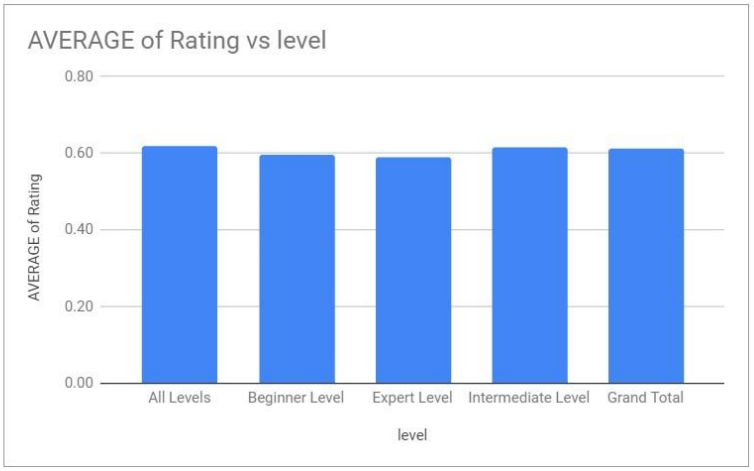


Figure 3: Average of rating vs level

level	AVERAGE of Ra
All Levels	0.62
Beginner Level	0.60
Expert Level	0.59
Intermediate Lev	0.62
Grand Total	**0.61**



Analysis

Your findings from the root cause/5 Whys analysis

The 5 Whys technique is a simple and effective tool for solving problems. Its primary goal is to find the exact reason that causes a given problem by asking a sequence of “Why” questions.

- The 5 Whys method helps your team focus on finding the root cause of any problem.
- It encourages each team member to share ideas for continuous improvement, rather than blaming others.
- It gives your team the confidence that it can eliminate any problem and prevent the process from recurring failures.

Conclusions

If you believe that certain actions should be taken as a result of your findings, put them here

- High degree of objectivity and neutrality of the researchers are one of the main advantages of Descriptive Analysis.
- Descriptive analysis is considered to be more vast than other quantitative methods and provide a broader picture of an event or phenomenon.

- This type of analysis is considered as a better method for collecting information that describes relationships as natural and exhibits the world as it exists
- It is considered useful for identifying variables and new hypotheses which can be further analyzed through experimental and inferential studies.

- This type of study gives the researcher the flexibility to use both quantitative and qualitative data in order to discover the properties of the population.

- In the case of surveys which consist of one of the main types of Descriptive Analysis, the researcher tends to gather data points from a relatively large number of samples unlike experimental studies that generally need smaller samples.

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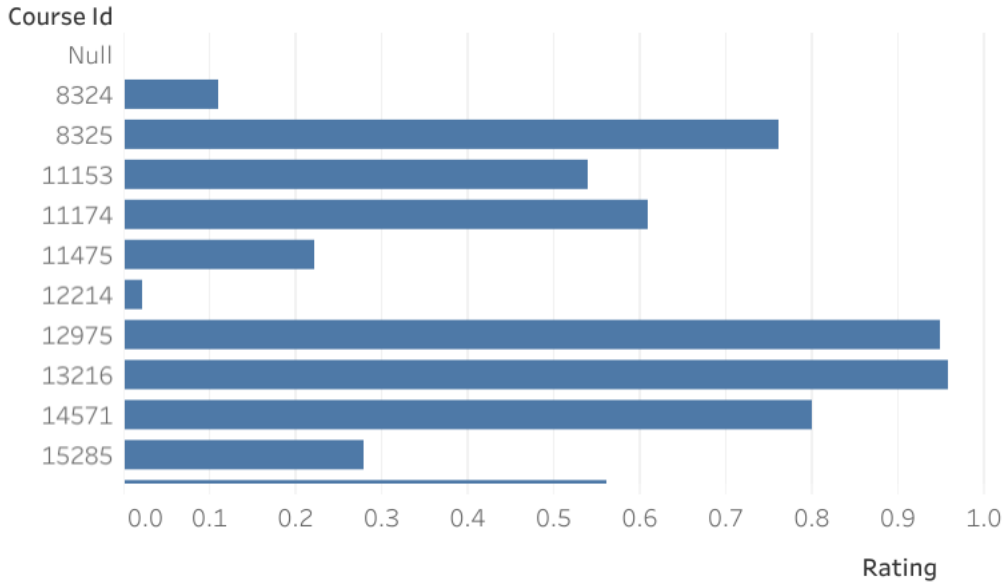

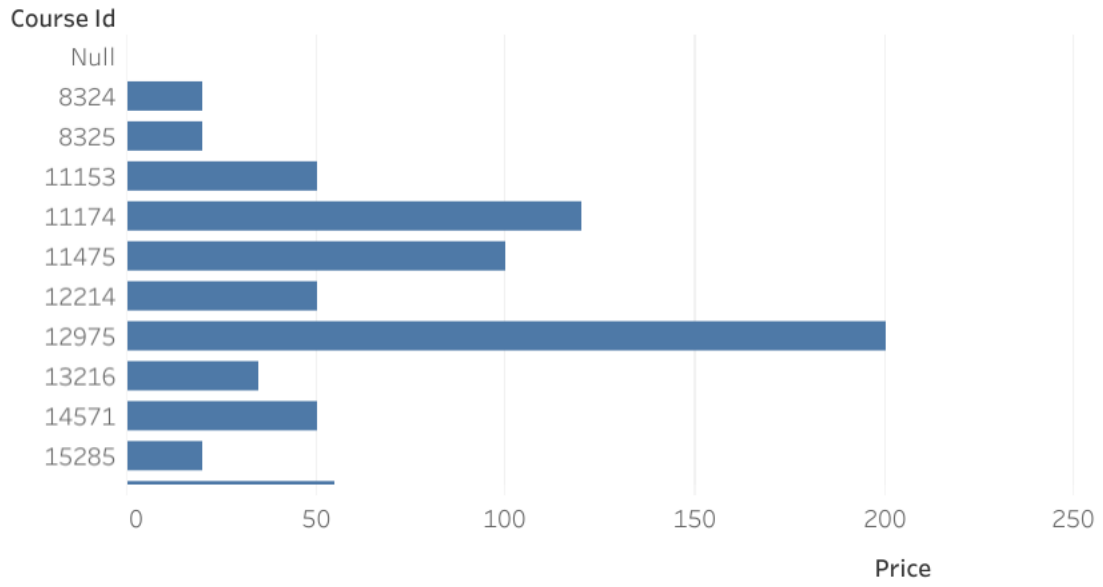

A1 course_id

	A	B	C	D	E	F	G	H	I	J	K	L
1	course_id	course_title	url	price	num_subscribers	num_reviews	num_lectures	level	Rating	content_duration	published_timesta	subject
2	49798	Bitcoin or How I L	https://www.uden	0	65576	936	24	All Levels	0.56	8	2013-04-20T02:2	Business F
3	48841	Accounting in 60 M	https://www.uden	0	56659	4397	16	Beginner Level	0.95	1.5	2013-04-07T21:3	Business F
4	133536	Stock Market Inve	https://www.uden	0	50855	2698	15	All Levels	0.91	1.5	2013-12-25T19:5	Business F
5	151668	Introduction to Fin	https://www.uden	0	29167	1463	8	All Levels	0.18	1.5	2014-05-27T16:2	Business F
6	648826	The Complete Fin	https://www.uden	195	24481	2347	174	All Levels	0.37	10	2016-01-21T01:3	Business F
7	97338	Forex Basics	https://www.uden	0	22344	712	26	All Levels	0.89	3.5	2013-10-16T17:4	Business F
8	321410	Beginner to Pro in	https://www.uden	195	22257	2697	138	Intermediate Leve	0.13	7.5	2014-11-25T23:0	Business F
9	301442	Black Algo Tradin	https://www.uden	200	20195	1113	227	All Levels	0.21	16	2014-10-27T22:0	Business F
10	189160	Financial Analysis	https://www.uden	0	19614	635	14	All Levels	0.3	1.5	2014-04-23T15:1	Business F
11	191854	Stock Market Fou	https://www.uden	0	19339	794	9	All Levels	0.89	2	2014-03-31T21:3	Business F
12	754028	Financial Accounti	https://www.uden	0	17847	1440	17	Intermediate Leve	0.34	1	2016-02-24T14:5	Business F
13	265960	Fundamentals of I	https://www.uden	0	17160	620	23	Beginner Level	0.69	1	2014-08-29T20:1	Business F
14	308690	Forex Trading A-Z	https://www.uden	195	16900	2476	52	Beginner Level	0.16	5.5	2014-12-12T23:5	Business F
15	285638	Learn to Trade fo	https://www.uden	60	16385	273	45	Beginner Level	0.78	3	2014-09-02T03:5	Business F
16	401784	Options Trading I	https://www.uden	95	12394	218	30	All Levels	0.25	2.5	2015-02-20T21:3	Business F
17	189996	Introduction to Di	https://www.uden	0	12217	351	17	All Levels	0.41	1	2014-04-29T05:4	Business F
18	302562	Introduction to Ac	https://www.uden	20	11958	370	134	All Levels	0.81	11.5	2014-10-02T09:1	Business F
19	777444	Corporate Financ	https://www.uden	0	11724	649	17	All Levels	0.81	1.5	2016-03-04T05:5	Business F
20	116128	CPA 101: How To	https://www.uden	100	11517	92	21	All Levels	0.81	1.5	2013-11-09T21:4	Business F
21	888716	Introduction to Fin	https://www.uden	200	11441	1118	61	All Levels	0.81	4.5	2016-06-28T06:1	Business F
22	774174	Bitcoin For Beginr	https://www.uden	0	10670	444	15	All Levels	0.81	1	2016-03-03T21:0	Business F
23	325834	Learn to Trade fo	https://www.uden	95	10605	71	77	All Levels	0.81	3	2014-10-24T18:1	Business F

Data Sheet Udemy Courses - Busi

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