**Udemy Courses Dashboard**

***By* Aashi Pandey**

**Dashboard-**

Chart

Description automatically generated

Graphical user interface

Description automatically generated

**Other Views-**

Chart, bar chart

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Chart, histogram

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**About the dataset-**

Udemy is an online teaching website where plethora online courses are available for public. Some courses are paid and some are unpaid. It is very famous website for certifications and online learning.

The data represents the information about the various courses taught by Udemy which is an online learning and teaching marketplace. It gives larger picture of what subjects or industry Udemy has most courses and there subscribers, course\_id etc.

**Columns-**

course\_id (Integer)- It is the unique ID of the courses that helps identify the courses and other information directly.

course\_title (String)- It is the name of the course as it appears on the website of Udemy.

url (String)- It is the unique url to the course.

is\_paid price (Boolean)- It has True or False value ststing whether the course is paid or not.

num\_subscribers (Integer) - It is total number of subscribers for the specific course.

num\_reviews (Integer) - Its the number of reviews that particular course received.

num\_lectures (Integer) - Number of lectures in particular course.

level (String) - It is categorical data that has 4 values, beginner, intermediate, expert, and all level.

content\_duration (FLoat) - Number of hours.

published\_timestamp (Date Time) - yyyy-mm-dd format with hours, minutes and Time Zone.

subject (String) - Name of subject that course covers.

**Dataset Location-**

Kaggle.

<https://www.kaggle.com/andrewmvd/udemy-courses>

The dataset is publicly available and have information till the year of 2019.

**About the Dashboard and Charts-**

There are mainly 2 dashboards placed side by side. Both the views are interactive and enables user to explore data.

Data Exploration View-

First tab shows full dataset. Second tab shows the header that is columns of dataset. Third tab shows data type of each column in the dataset. Fourth Tab shows Unique Value of the selected variable in the dataset Fifth Tab makes graph between the two variables selected by user. I have Stored categorical data in Variable 1 and Numeric Data in Variable 2 so that the Scatter plot gets plotted and there is clear understanding for the user. When the user selects both the columns from the drop down, the scatter plot is created to give understanding between different categorical data (qualitative data) and quantitative data (numeric data).

Interactive Chart View-

The second View that I have created is a Heat Map that allows user to choose specific subject and level of course combination, on basis of which the Scatter Plot will be plotted. The Scatter plot shows total number of reviews V/s price of course for the combination selected in the Heat Map.

As you click on one block of heat map, it shows the number of lectures versus price for the combination chosen in the heat map. One can think of it as a pivot table where number of is summed on the basis of subject and level of course

Apart from these views I have created some charts such as Bar plot to show total number of lectures for specific subject, Scatter plot to show relationship between content duration and number of lectures.

These all charts explore the dataset and can be helpful to make further decisions on the basis of the numbers on the charts.

**Contextual Visualizations-**

<https://public.tableau.com/app/profile/murali.kembhavi/viz/UdemyCourseSummaryDashboard/Dashboard1>

Graphical user interface, timeline

Description automatically generated with medium confidence

<https://public.tableau.com/app/profile/toan.hoang/viz/TableauMagiconUdemy/TableauMagiconUdemy>

A picture containing chart

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Mainly these two contexual visualizations helped me to create the charts and views I wanted to show to audience using python. These are the Tableau dashboards and very well explains the datasets.

**Link to the code-** <https://mybinder.org/v2/gh/aashipandey46/final_project_part2/f481ae49c959c925aa316867f6cdddec55c8edd6?urlpath=lab%2Ftree%2Fpandey-aashi-finalproject-part3.ipynb>

Github- <https://github.com/aashipandey46/final_project_part2/blob/main/pandey-aashi-finalproject-part3.ipynb>