

Data Visualization

Assignment 3

Title: 2021 Kaggle Survey – State of Machine Learning and Data Science

Date: March 1st 2022

Task: Interactive visualizations for analysing & deriving insights from Kaggle's survey of it's users

Operations:

- The world map allows users to understand the insights from around the globe and compare key statistics for different countries by hovering over them.
- The dashboard enables dynamic visualizations below the globe plot allows us to compare the different characteristics for the filtered countries and genders.
- The different plots compare the job-titles, qualifications, mean salaries and percentage of python (or any other programming language) users.
- The programming language to be compared can be chosen by a drop-down list.

Discussion:

- Size of the bubbles will need to be optimized for space and information

Focus:

Our selected sketch provides the most essential and varied information from the survey with just a few meaningful graphs:

Here we want the user of the dashboard firstly to notice the difference in mean salaries globally, depicted by the size of the bubble over each country. The user will have the option to hover over any country that they are interested in (and is available in the dataset) and gain further information on the Kagglers within that country.

Furthermore, the user will have access to a summarized view of each profession and is provided further information on industry, skills, salary and employer in a compact view.