

The given dataset is imported and explored

Top 20 locations with job opportunities:

The locations are splitted by commas and their value counts are stored in a newly created dataframe from where the top 20 locations with more job opportunities are obtained and followed by visualization through bar plot.

Top 20 cities with job opportunities:

The industries are splitted by commas and their value counts are stored in a newly created dataframe from where the top 20 cities with more job opportunities are acquired and visualized through the sorted bar plot.

Top 20 Job Categories:

From the Dataset the job role category, where extracted along with their counts using `value_counts()` function and stored in a new dataframe. It is visualized through the bar plot.

Top 20 Job roles:

The job role columns is processed under the `value_counts()` function to get the each job role along with their counts, stored in a newly created data frame. Among them the top 20 were picked up and visualized.

Top 5 Locations for top 20 Industries:

A dataframe created with location and industries extracted from given data and splitted based on the separators 'comma' and the Null values are dropped. The data were grouped on Industries along with the sum of job opportunities. Using the `plotly` package, the pie chart is used to visualize the data.

Skills Required for various jobs:

The skills are extracted and splitted based on '|' symbol along with their role category. They are put together in a single dataframe and grouped together to get the counts with respect to Roles and its skills. The data is visualized using sunburst pie chart of `plotly` package.

Average Salary offered in Top 10 cities:

In the given dataset, the salaries are given as range from minimum to maximum salary. The minimum and maximum salary along with the location variable is extracted to new dataframe. The columns are preprocessed enough to visualize and grouped by the location. The bar plot is used to visualize the minimum and maximum average salary of each top 10 locations.

Average Salary offered in top 10 industries in top 5 locations:

In the given data set it shows that BPO Industry Comes first in the top 5 cities. The minimum and maximum salary along with the location variable is extracted to new dataframe. The columns were preprocessed enough to visualize and grouped by the location and industry The data is visualized using sunburst pie chart of plotly package.