

Project Proposal

Visualization of H-1B Visa Data Set

Final Project Link:

<https://public.tableau.com/profile/md.saiful.islam.sajol#!/vizhome/VisualizationofH-1BVisaDataSet/Story1?publish=yes>

My Original Design Choices

1. **Executive Summary**

The H-1B is a visa in the United States that allows employers to temporarily employ foreign workers in specialty occupations. The specialty occupation requires the application of specialized knowledge and a bachelor's degree or the equivalent of work experience.

The US job market is famous for its high salary and good social benefits. People from different backgrounds come here to join the work force. However, possibilities of getting job are not same for all job categories. So, this visualization will analyse the data and try to find out which professions have highest chances to get jobs in the US.

2. **Why and Who**

This storytelling will be helpful to any individual who is looking for job in the USA, wants to know in which fields there are highest possibilities of getting job, relevant salary information and which posts are most desirables by the employers.

I believe, any tech person or engineer will find it useful to analyse the job scopes, scenario and job structure of US job market.

3. **What**

Here is the link (<https://www.kaggle.com/jonamjar/h1b-data-set-2017>) to my dataset which is available on Kaggle. It's a csv file. I have selected this dataset because it's been made public by the US government and anyone can download and use it.

4. **How**

This visualization will analyse the H-1B visa data-set from the year 2011-2017 and try to extract information based on:

- Number of Applications over the Years, and Scenario of Visa Petition Status
- Top Worksite Cities for Employees
- Most Popular States for Getting Jobs
- Top Employers Who Petitioned H1B Most
- Most Demandable Jobs and Their Salary

- Highest Paid Jobs

After analysing above segments, I shall try to make decisions based on the visualizations that I shall find.

5. Challenges

The data set has 624651 rows and 53 columns. So, to extract relevant information using Tableau visualization is both challenging and fun.

➤ As you can see my original proposal did not change

Persona document

- Name :Akib Ibn Zahid
- Age: 28
- Gender: Male
- A representative photo



- Goals of the user relative to your visualization or data story
He is a Software Engineer and planning to get a job in the US.
- Challenges and needs of the user relative to your visualization or data story
The visualizations have to be easy to interpret and representable to other Software Engineers
- Context in which the user will view or interact with the visualization or data story
Mr. Akib wants to analyse the visualization to find out which companies recruit highest number of foreign workers and in which cities most number of jobs are offered.

Design Choices I made:

- ✓ **Bar Chart** : To show Number of Applications over the Years, and Scenario of Visa Petition Status
- ✓ **Bar Chart / Map** : To show Top Worksite Cities for Employees
- ✓ **Vertical Bar Chart , Map & Packed Bubble Chart** :To show Most Popular States for Getting Jobs
- ✓ **Tree Maps & Bar Chart**: To show Top Employers Who Petitioned H1B Most
- ✓ **Horizontal Bar Chart** : To show Most Demandable Jobs and Their Salary
- ✓ **Bar Chart & Bubble Pack View** : To show Highest Paid Jobs

Visualization of H-1B Visa Data Set

The final visualization of the project can be found on below link.

<https://public.tableau.com/profile/md.saiful.islam.sajol#!/vizhome/VisualizationofH-1BVisaDataSet/Story1?publish=yes>

For convenience I have attached some screenshots below

















