**OBSERVATIONS OF THE EXPLORATORY DATA ANALYSIS**

**High-Applicant Employers-**top 10 employers with the most number of applications in the period 2011-2016**.**

**QUESTIONS INTERESTED IN ANSWERING ?**

**1) Which Employers send most number of H-1B visa applications?**

**2) What is the Percentage share out of the 85,000 visa cap for the Employers with most applications?**

**3) Most common Job Titles in these high-applicant employers?**

**4) Comparison of wages offered by these high-applicant employers to rest of the industry?**

**OBSERVATIONS--**

1. Infosys leads the pack by a huge margin with over 30000 applications in 2013 and 2015.
2. The Top 10 list is dominated by the Indian IT companies.
3. We observe a slight dip in the number of applications from Infosys, Wipro, Tata Consultancy, IBM India and HCL America. This is because of increased incorporation of automation in the IT industry.

**What is the Percentage share out of the 85,000 visa cap for the Employers with most applications?**

**OBSERVATIONS-**

1. Again ***Infosys*** leads the pack by around 38 % of approved H1B visa applications from the foreign national by the US IMMIGRANTS DEPARTMENT followed by ***TATA CONSULTANCY SERVICES*** *at 19% for the year 2015.*
2. *Least % of H1B visa applications were approved in 2011, 2012,2013 for almost all top 10 companies.*
3. Over 90% of the certified H-1B visa applications belong to the **IT companies** with the most applications which were approved and certified.

**TOP 5 EMPLOYERS WITH MOST H1B labor Visa PETITIONS ?**

**OBSV-**

1) INFOSYS LIMITED

2) TATA CONSULTANCY SERVICES LIMITED

3) WIPRO LIMITED

4) DELOITTE CONSULTING LLP

5) IBM INDIA PRIVATE LIMITED

**3)COMPANIES LIKE GOOGLE,AMAZON AND FACEBOOK- IT GIANTS – THE SALLARY OFFERED BY THEM AND FOR WHAT JOB TITLES?**

**OBSV-**

1. We can clearly see that the high-applicant employers with the most H-1B visas have significantly lower wages for Software job positions like Infosys ,TCS,Wipro etc.
2. The median wage(50% of IT companies) for the IT companies is lower than 70000 USD whereas for the top software companies the median wage is above 85000 USD.
3. Facebook and Google have the highest median wage above 100000 USD.

**4)ANALYSIS OF DATA SCIENCE RELATED JOBS- MACHINE LEARNING JOBS AND DATA ENGINEER ETC:**

**OBSV-**

**1)**Highest number H1B visa applications for **Data Sciencetist** positions with application increasing from 2011 to 2016(highest), followed by **Data Engineer** positions having the same trend and at last least number of H1B visa applications for **Machine learning** engineer positions with maximum of ***78* applications** that too in 2016 itself.

*In 2016, Data Scientist position broke the 1000 barrier on the* number *of H-1B Visa applications.*

2) Common trend in all job titles are that from 2011 to 2016 the number of applications increase somewhat and for **data Sciencetist and data engineer** it *increases exponentially* form 2011-2016.

***MEDIAN WAGES-***

*1)Highest wages for Machine Learning jobs.*

1. *Wages of Data Sciencetists have decreased maximum in 2016 and was highest during 2012 , it might have decreased a bit due to some recession etc*
2. *For Machine Learning and Data science jobs wages were highest during the year 2012*
3. ***But unusual trend observed is that for DATA ENGINEER jobs the wages have increased over time form 2011-2016.***

**TOP 5 DATA SCIENCE EMPLOYERS with most no of H1B VISA Applications –**

**1)AMAZON**

**2)FACEBOOK**

**3)MICROSOFT**

**4)LINKEDIN**

**5)UBER**