TITLE-Analyzing Data science job trends in US using data analytics

**ABSTRACT**—This paper utilizes advanced data analysis techniques to study and analyze the recent growth and explosion in data engineering related sub-domains such as data analyst, data scientist, machine learning engineer in the United States using H1-B visa petitions dataset from year 2011 to 2016 end as US is a leader in employing most foreign technical employees. This paper utilizes the H-1B petition disclosure data to analyze the employers with the most applications, data science related job positions and relationship between salaries offered etc. This paper answers interesting questions such as –“Who are the top employers who issued the most H1-B visa applications”, ”What are the annual wages of the employees of several technical job positions”, “What are the most preferred worksites” etc, and same questions asked for data science related job positions too. The results were that top three Indian IT companies—*Infosys, Wipro, Tata Consultancy* *services* were the top three companies which issued most H1-B visa applications. There has been a big increase in demand of data scientist, data-engineer and machine learning engineer from 2011 to 2016. The highest annual salary amongst the above job positions is for machine learning engineer. The annual salaries have been somewhat fluctuating for data scientists and machine learning engineers, but for a data-engineer it has increased over time form 2011-2016. The highest number of H1-B applications were issued for data scientist job title and least for machine learning engineer. The top five companies which issue most H1-B applications for data-science related job positions are Amazon, Facebook, Microsoft, LinkedIn and Uber whereas companies which pay highest annual salaries for such data-science job positions are Netflix, Apple, Airbnb, Twitter and Paypal.

INTORDUCTION—The H1-B visa is an employment based, non-immigrant visa category for temporary foreign workers in the United States.

LITERATURE REVIEW:

PROPOSED METHOD:

RESULTS AND EVALUATIONS:

CONCLUSION:

REFRENCES: