IBM DATA SCIENCE SPECIALIZATION COURSE

Analysing Education Abroad

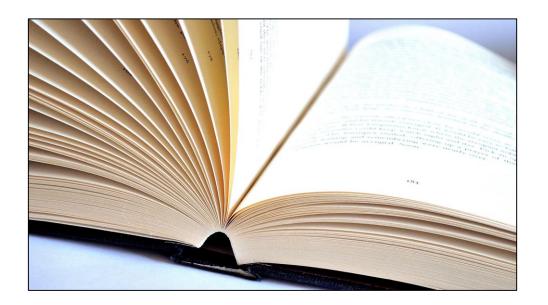
ANALYSING THE TREND IN THE EDUCATION SECTOR TO STUDY ABROAD

- Most recent education trend is to study abroad in a foreign country
- Reasons for this include:

 Exposure to new cultures,
 Learning to live independently,

Forming new networks and so on

 Foreign universities offer various kinds of specializations with a degree (eg.: a double major)



However, the number of students studying abroad is more than half of the number of foreign students studying in India



- Two sets of data have been sourced from websites hosted by the Indian Government and a non-governmental organization
- One set consists of the number of foreign students studying in Indian from 2014 to 2017
- The other set consists of the various countries that Indian students have migrated to in 2014
- Using FourSquare, data of the universities in New York and Rajasthan was acquired.

	Year	Number of Students
1	2014	65602
2	2015	74061
3	2016	72542
4	2017	69322

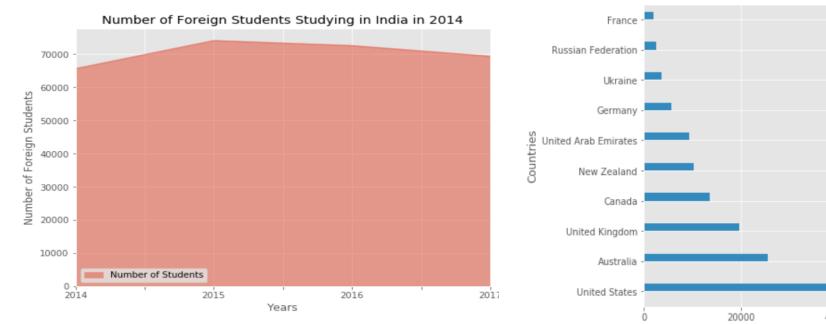
	Rank	Number of Students
Destination		
United States	1	97613
Australia	2	25562
United Kingdom	3	19604
Canada	4	13626
New Zealand	5	10255

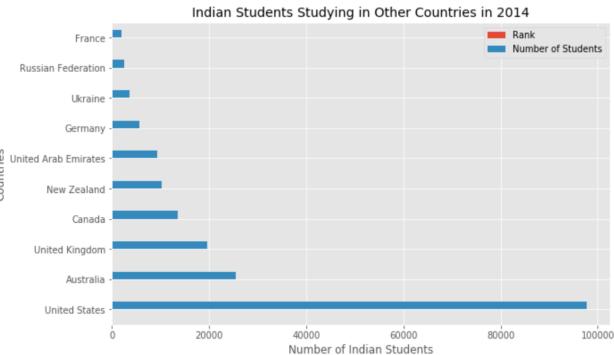
Data Acquired Using FourSquare

	name	categorie	es a	ddress	city	country	distance	formattedAddre	ess	lat Ing	state	id
0	Pace University	Universi	ity 1 P	ace Plz	New York	United States	224	[1 Pace Plz (btwn Nassau & Gold S New York		20 -74.005743	NY	49e7c7c6f964a5201b651fe3
1	New York University	Universi	ity 25 V	V 4th St	New York	United States	2162	[25 W 4th St, New York, NY 100 United Stat		18 -73.993122	NY	5058de7be4b007870dd7ad7a
2	Columbia University	Universi	ITV	oadway	New York	United States	11137	[116th St & Broadway, New York, 10027, Un		82 -73.962849	NY	4227a500f964a520c51f1fe3
3	Pace University - William St	Universi	ity 163 Wi	lliam St	New York	United States	298	[163 William St (at Ann St), New Yo NY 100	ork, 3 40.7100	52 -74.006267	NY	4cd03c7ca03a9eb0b458b103
4	Pace University Gym	Colleç Gy	· 1 P	ace Plz	New York	United States	143	[1 Pace Plz (btwn Nassau & Gold S New York	St), 40.7115 (,	73 -74.005255	NY	4cc0aa4522ce4688e6c63847
		name	categories	address	city	country	distance	formattedAddress	lat	Ing	state	id
0	university Staff Colony,		categories None	address NaN	city NaN	country	distance	formattedAddress [India]		Ing 73.037710	state NaN	id 50268a84e4b0a90de240b15f
0	university Staff Colony, SPUP - Sardar Patel U of Police	Jodhpur Iniversity							26.267945	-		
1	SPUP - Sardar Patel U	Jodhpur Iniversity e, Secu	None	NaN	NaN	India	94576	[India]	26.267945	73.037710 73.063681	NaN	50268a84e4b0a90de240b15f
1	SPUP - Sardar Patel U of Police	Jodhpur Iniversity e, Secu Jodhpur	None	NaN NaN	NaN NaN	India India	94576 83891	[India]	26.267945 26.397253 26.261844	73.037710 73.063681 73.029049	NaN NaN	50268a84e4b0a90de240b15f 55a0e3d7498e818b3cb719eb

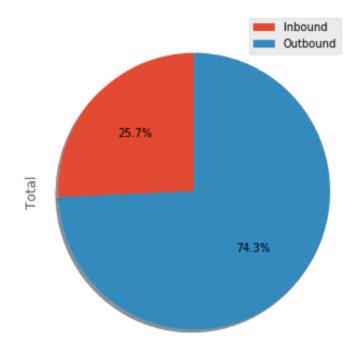


Explanatory Data Analysis

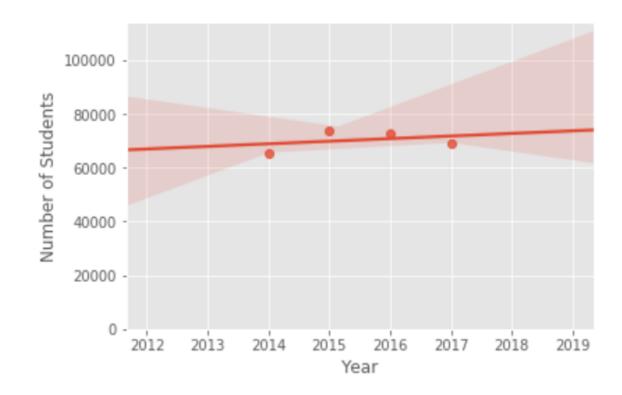




Comparing Number of Inbound and Outbound Students (India – 2014)



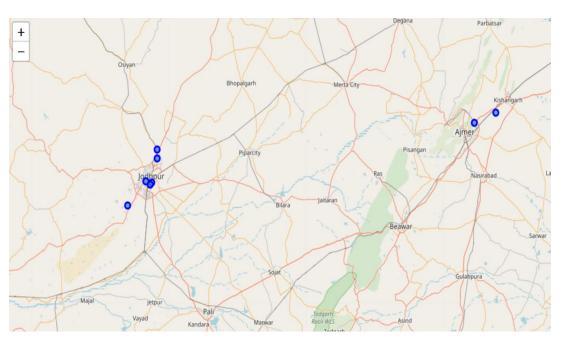
- To predict the number of students
- A linear regression model was built and fitted based on the data from the first data set
- The model was evaluated by using a regression plot



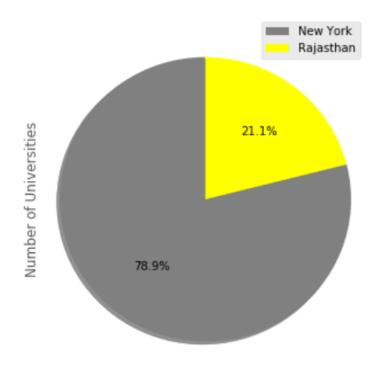
Number of Students = -1872761.80 + 964.1*Year

For further analysis, FourSquare location data was used to compare two states: New York is one of the four states in America with the most number of universities Rajasthan is the state in India with the most number of universities





Comparing the number of universities in New York vs Rajasthan



CONCLUSION

- Number of foreign students studying in India is less compared to the number of Indian students studying in other countries.
- United States of America was the country that had the most number of Indian students in 2014.
- Number of universities available could be one of the reasons for more number of outbound students from India.
- The data procured was insufficient for building reliable models and future predictions.
- Even though the times have changed and new countries have risen with better opportunities, we have inferred that Indians prefer studying abroad, especially in the United States of America.
- India must improve its education system in order to make it more attractive to foreigners as well as its own citizens