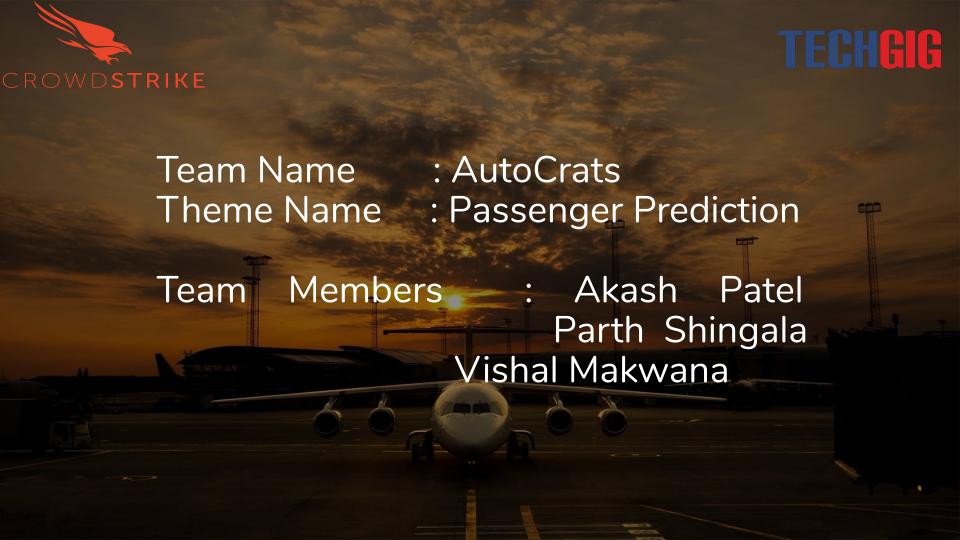
CrowdStrike Hackathon Every Second Counts

TECHGIG







Background: Passenger Prediction

- Thousands of people travel every month from India to another countries and thousands come to India from another countries.
- If we predict how many people travel abroad in a month, it would be easier for airplane companies to schedule their flights.
- Predicting number of passengers leads to an efficient utilization of the company's resources which increases the company's profit.





Definition:

- Each year a large number of flights land in India carrying thousands and lakhs of people form different parts of the world..
- Predicting the crowd for the upcoming year can help in making the arrangements and facilities better.
- The prediction can be useful for a large number of business domains





Solution:

- The details about the flights and their passenger capacity is provided for different years and quarters and we have to predict the passenger coming to India for the first quarter of the next year.
- So first data was pre-processed and all the missing data was filled using the passengers from India column
- Next the data was pivoted and country names were sat as columns with Passengers to India as values.
- After the data was created, we applied time series for series prediction for the next quarter.





Deliver:

- The data we obtained is converted into country name as columns
- One column at a time is sent into the model for prediction.

COUNTRY_NAME	Date	AFGHANISTAN	AUSTRALIA	AUSTRIA	BAHRAIN	BANGLADESH	BELGIUM	BHUTAN	BURMA	CANADA		TAIWAN	TAJIKISTAN
0	2015- 01-01	37194	16676	13318	114087	76357	21266	6251	9540	13272		2595	554
1	2015- 04-01	26708	13117	10481	131510	66500	18593	12345	3688	9404	111	1288	2600
2	2015- 07-01	27081	15141	14994	118138	73625	22725	6868	2339	11480		1472	541
3	2015- 10-01	24290	18058	15418	134988	82047	24329	11121	7124	22728	557	4858	558
4	2016- 01-01	39719	16981	10892	131984	83989	18265	9083	9006	28745		4218	848
5	2016- 04-01	22483	15797	6363	141578	82053	0	15185	3203	21579	127	2057	1149
6	2016- 07-01	28759	16293	7938	138471	83101	0	10566	2372	25816		3614	1050
7	2016- 10-01	37827	19627	7903	135094	86076	0	13170	13609	40920	222	6727	944
8 rows x 52 colum	ns												

8 rows × 52 columns



CROWD**STRIKE**

Trend patterns of passengers to Bangladesh

sns.lineplot(x='Date',y='BANGLADESH',data=train2)

<matplotlib.axes. subplots.AxesSubplot at 0x156943caec8>

