

Module 4 Assignment

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Literature Review and Software Tooling

Dataset : MySpeed (Crowdsourced Mobile Data Speeds)

Description: This catalog provides Crowdsourced Mobile Data Speeds and other network information measured using TRAI MySpeed App. It contains the data speed for different region of states for a particular service provider.

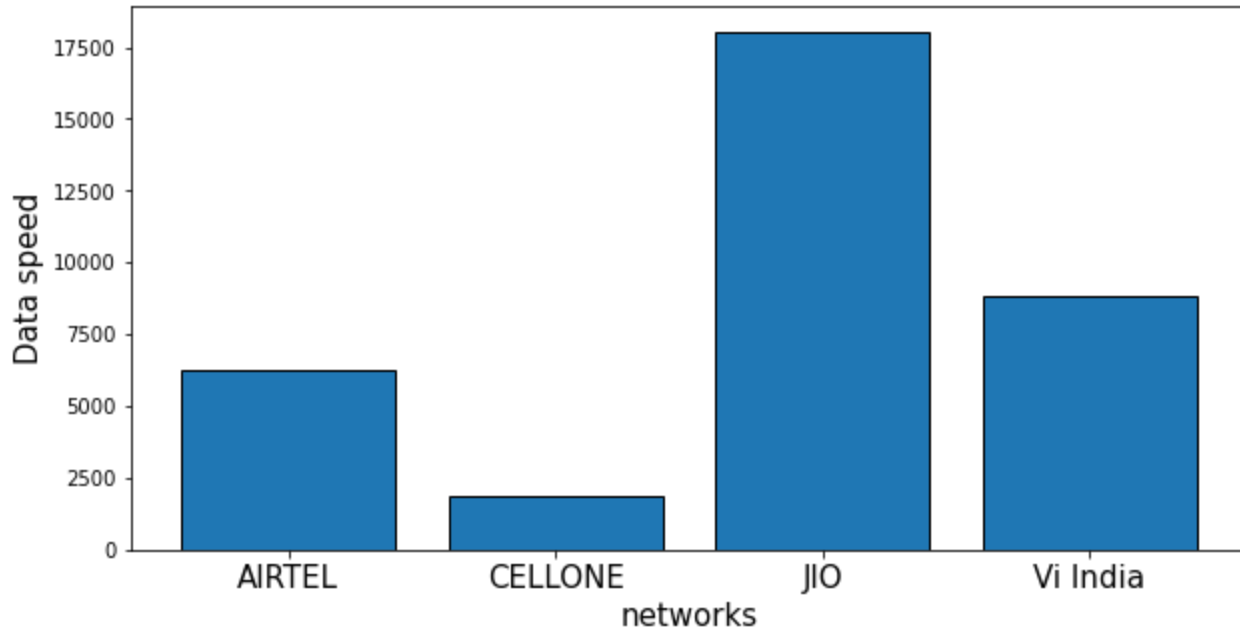
Link : <https://data.gov.in/resources/all-india-crowdsourced-mobile-data-speed-measurement-august-2021>

Observations :

Bar Plot :

Service_Provider	Data_Speed
AIRTEL	6253.878922
CELLONE	1901.100486
JIO	18031.227123
Vi India	8828.696609

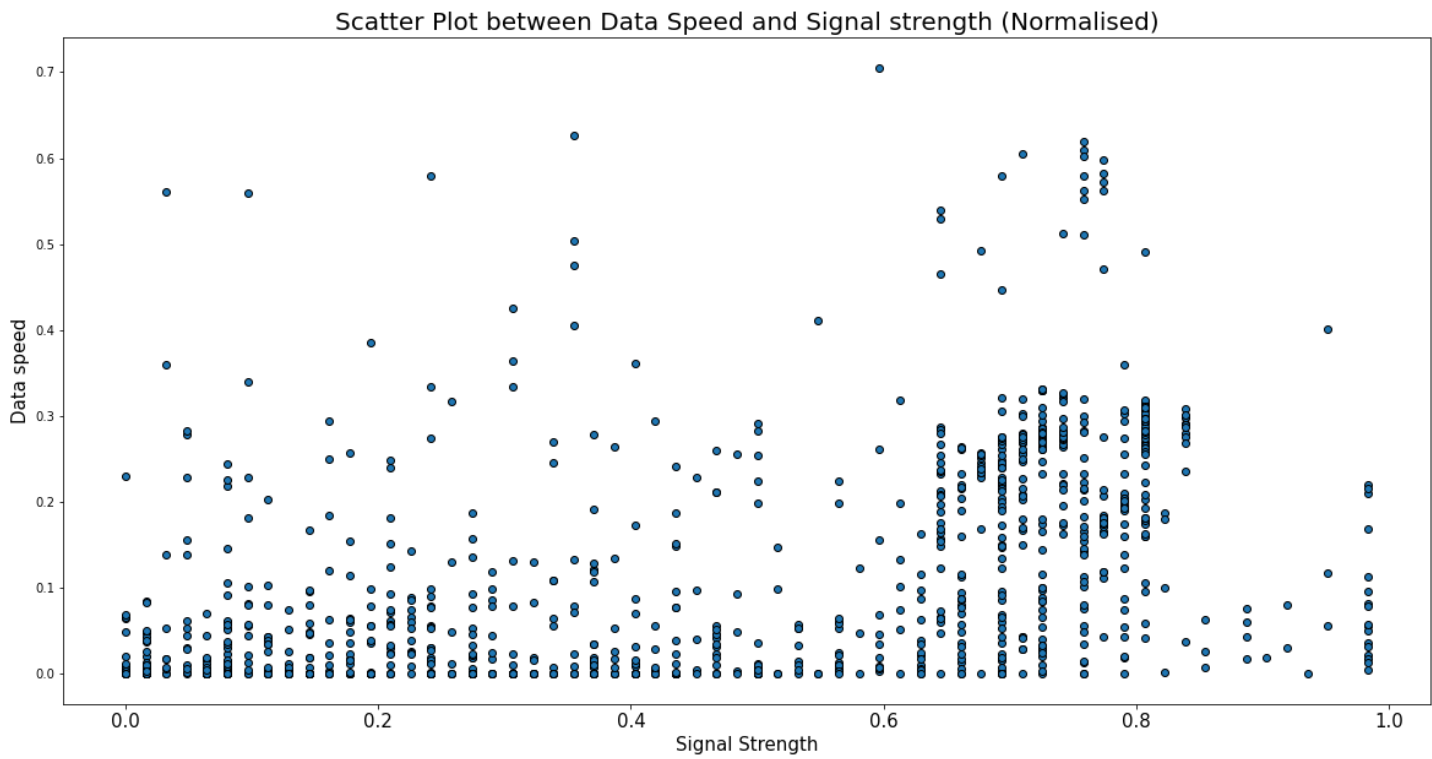
Average Data speed (in kbps) of different networks



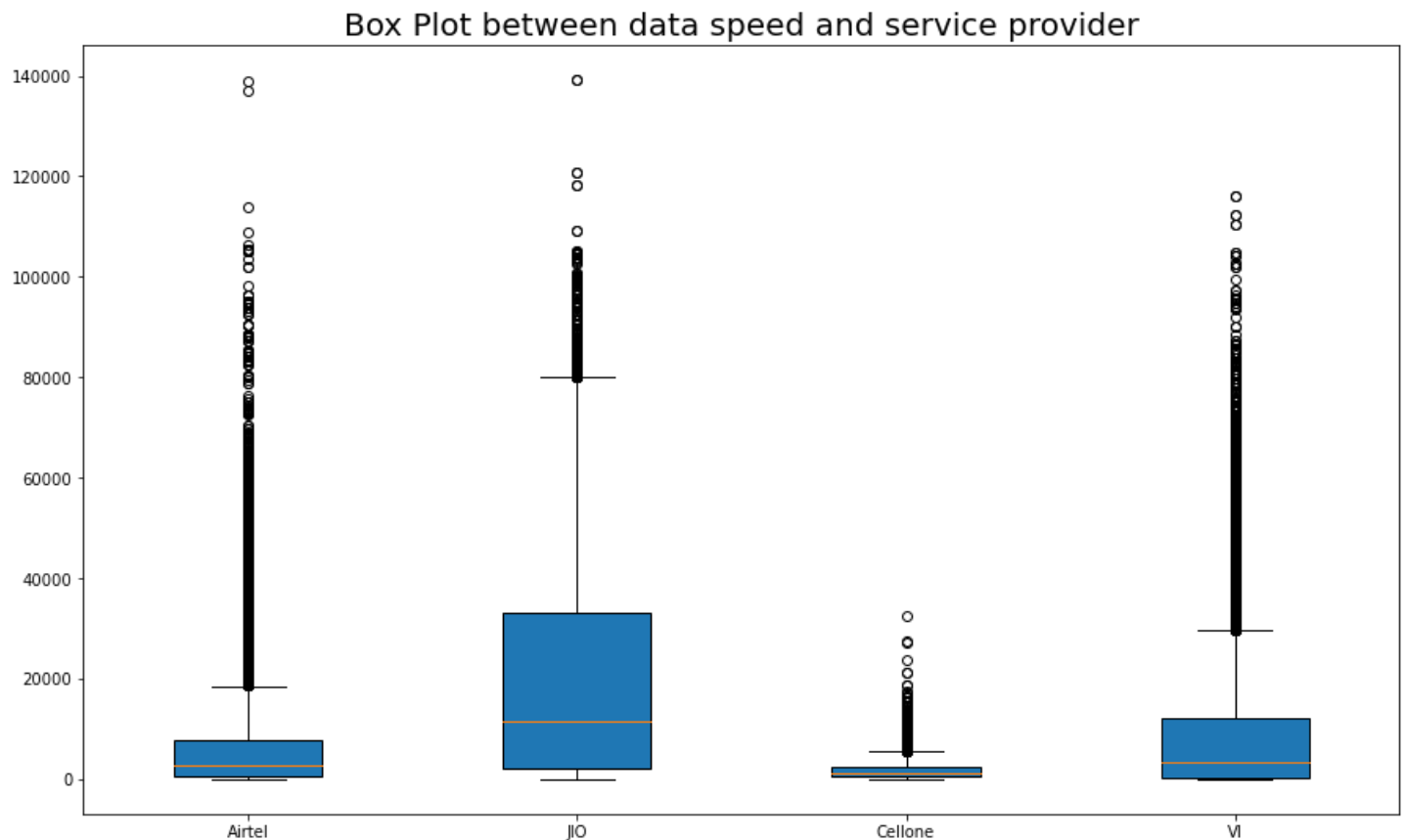
- We can see that Jio has the best average speed among the others service provider across the nation .
- The average speed for JIO is 18000 Kbps.
- The Second best performing provider is Vi India which has a average speed 8828Kbps.
- The worst performing is Cellone .

Scatter Plot :

- As we can see from the scatter plot there is no visible linear relationship between the signal strength and data speed .
- But we can see that for higher signal strength the data speed is much on the higher side of the plot .



Box Plot :



- Plotted the box plot between the data speed and service provider .
- It can be seen that the outliers for airtel and vi are more and the highest speed is achieved by both airtel and jio.
- The median speed of JIO is the highest among all others and its varied out more then others .
- Cellone has the least median speed among all others .