

# The Spectrum Data Challenge

Link for Python Notebook

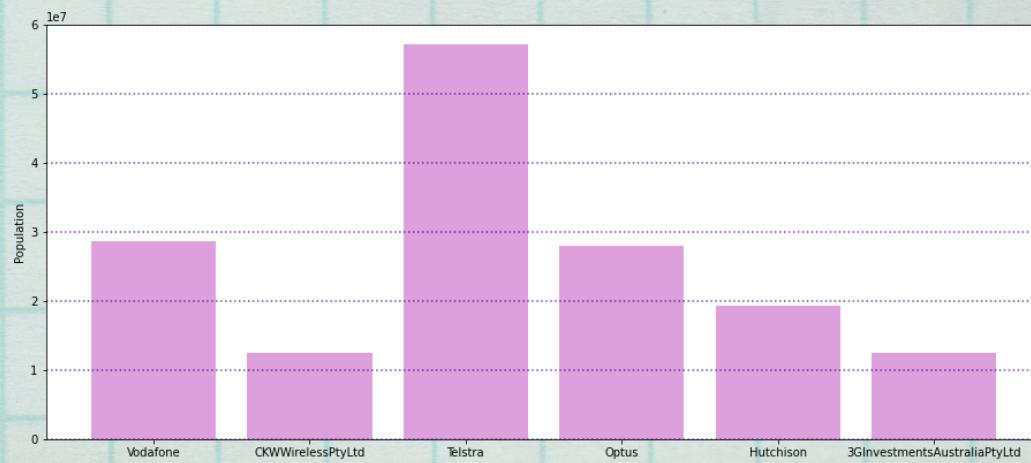


## Techno-Economics Group-19

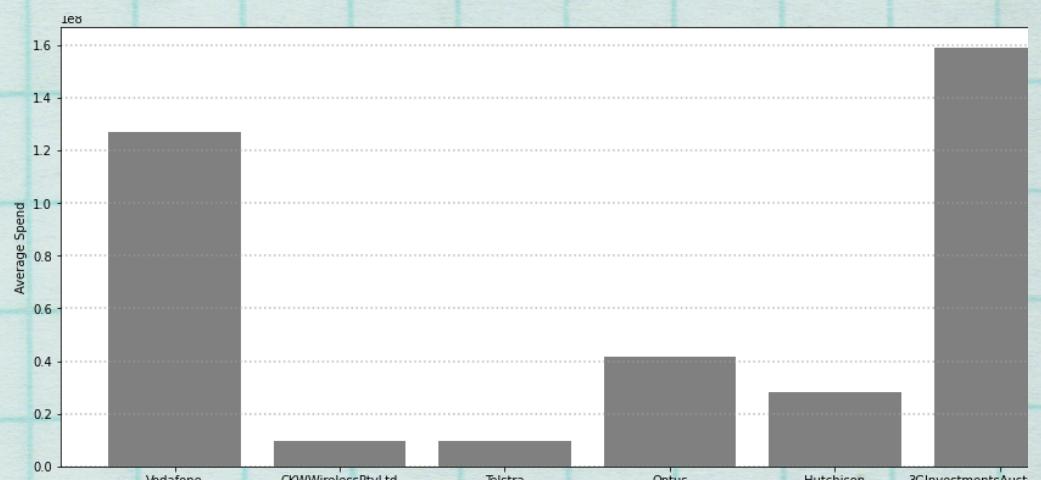
### GOALS

- Country wise spectrum allocation analysis
- Population Covered by various spectrum ranges in various region
- Prediction of future spectrum prices

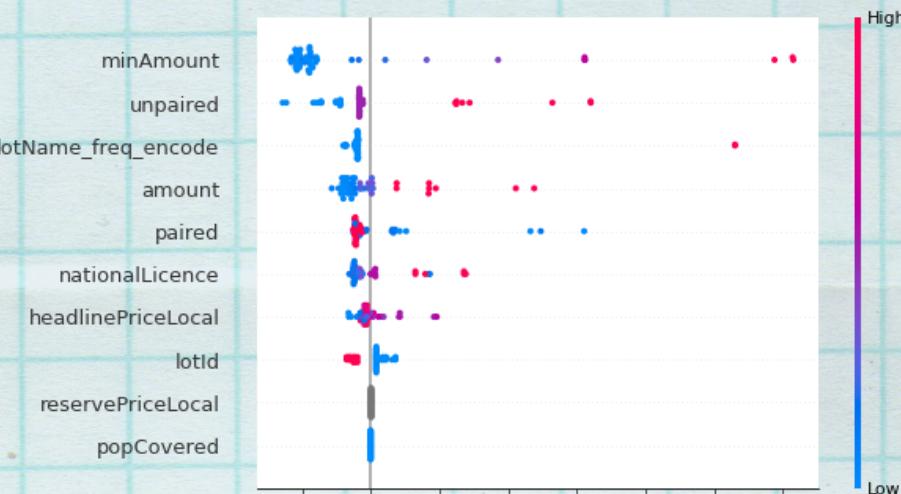
Total Population Covered by Bidding Winners throughout Australia for 3G Auction



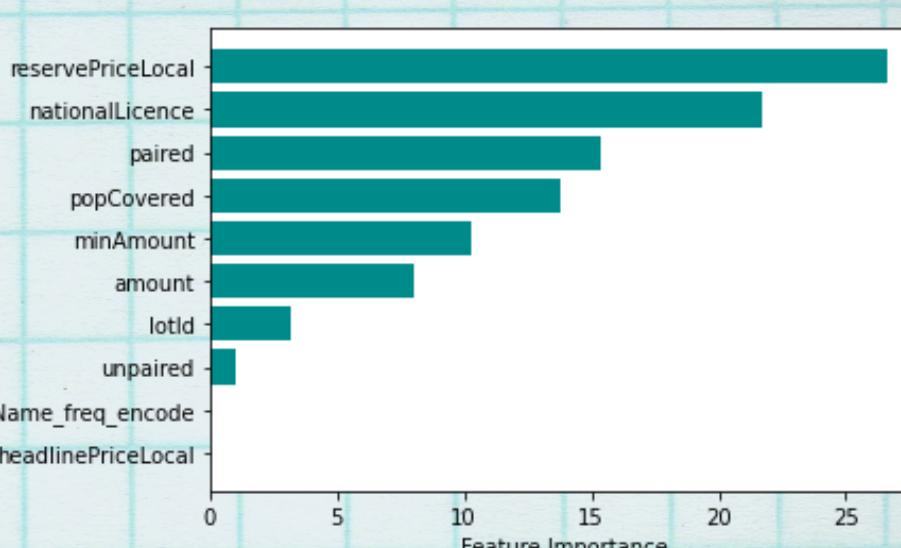
### Average Spend (in 100 million \$) by winners in 3G auction in Australia



Calculating SHAP value impact on model for prediction of future India 3G spectrum prices



Important Features for prediction of future 3G spectrum prices for India in 2014



Vaibhav Tandon (MT2020150)

Abhishek Garg (MT2020021)

Pawan Kumar Gupta (MT2020097)

Ankireddy Prathyusha (MT2020151)

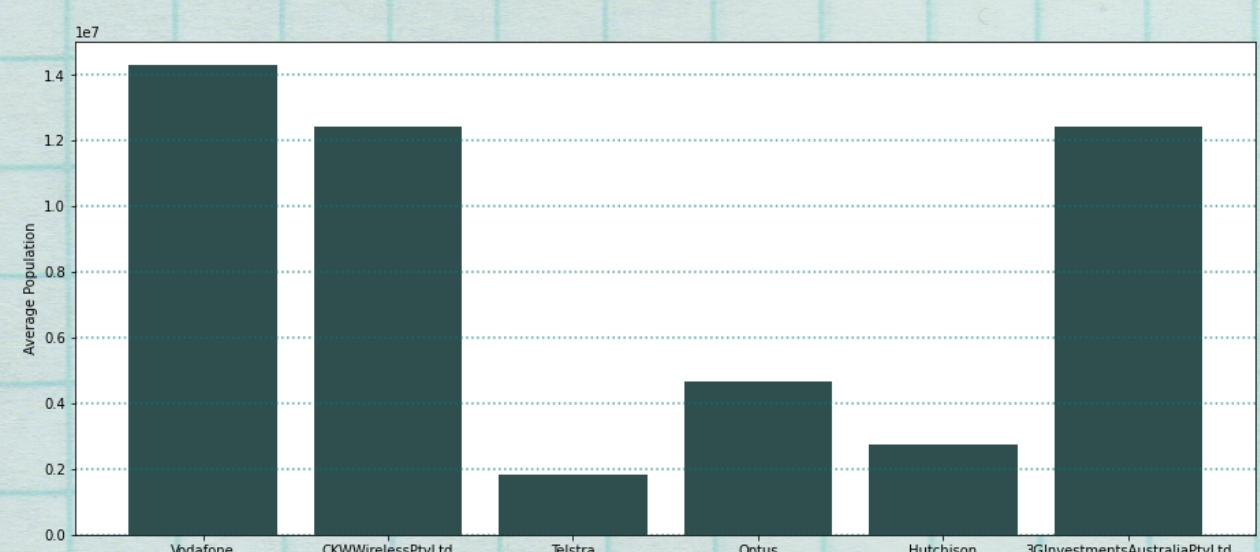
Abdul Hadi (IMT2018041)

Divyansha Agarwal (MT2020141)

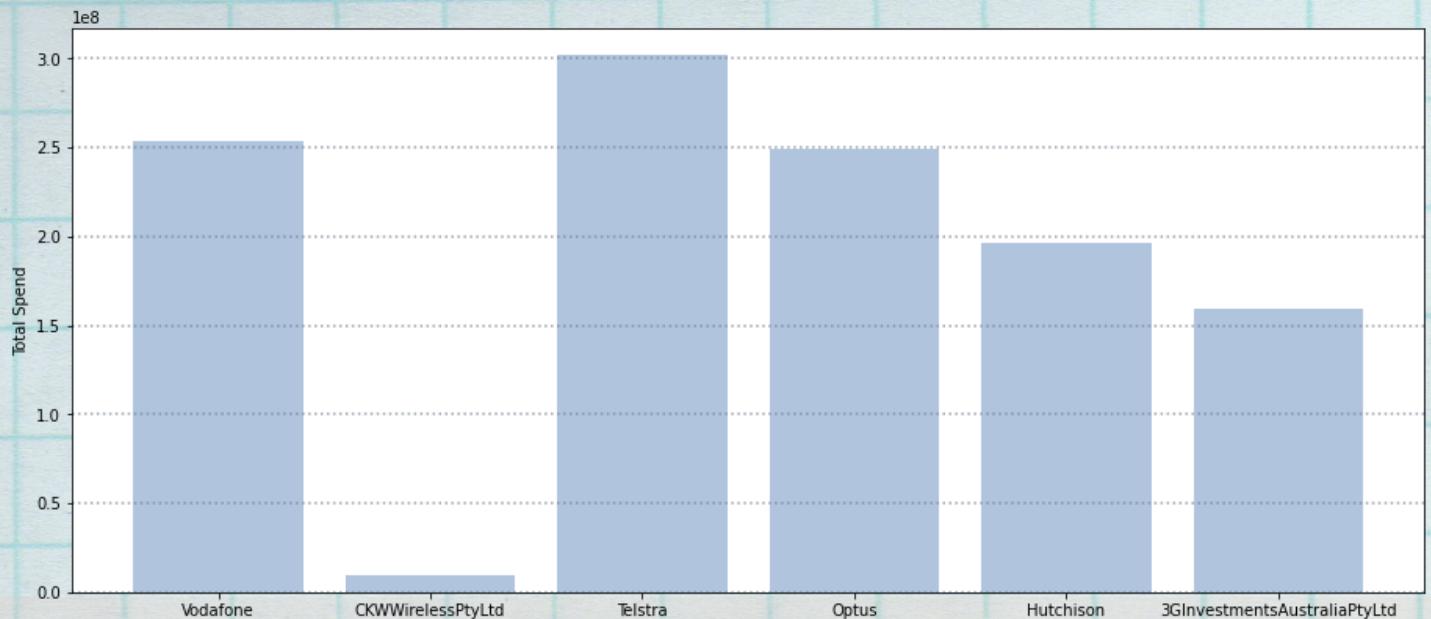
### Overview

We are given database containing data extracted from DotEcon's Spectrum Award Database on various spectrum allocations done worldwide since 1994 until 2020.

### Average Population Covered by Bidding Winners throughout Australia for 3G Auction



### Total Spend in (100 million \$) by winners in 3G auction in Australia



### Correlation Between Different Features-India 3G spectrum

