Shruti – Subsea Engineering

Laura – Health Care

Walton - Mining Mechanical Engineer

Oksana – Health Care

Covid

* Data integrity – lots of data but might not all be the standardise
* Possible angles eg. Maybe just 1 or more country. Cases vs vaccination, hospitalisation vs cases/vaccinations/death, vac vs death, non vac vs death etc.
* Mental health and covid
* How covid affect job/unemployment rate/business closure or revenue/
  + Hypothesis -
* Covid vs birth rate
* Covid vs median house prices
* Covid rate & lockdown vs housing market/rental market
  + Hypothesis – law to not increase rent might have an effect on prices

Data sources

* Cases- [Dataset Search (google.com)](https://datasetsearch.research.google.com/search?query=covid&docid=L2cvMTFqOWJ6Z3oyYg%3D%3D)
* Vaccination - [Dataset Search (google.com)](https://datasetsearch.research.google.com/search?query=vaccination&docid=L2cvMTFwd2JiMGxkMQ%3D%3D)

[COVID-19 World Vaccination Progress Data | Kaggle](https://www.kaggle.com/fedesoriano/coronavirus-covid19-vaccinations-data)

* Hospitalisation - [Dataset Search (google.com)](https://datasetsearch.research.google.com/search?query=covid&docid=L2cvMTFqOWJ6Z3oyYg%3D%3D)
* Death - [Dataset Search (google.com)](https://datasetsearch.research.google.com/search?query=covid&docid=L2cvMTFqOWJ6Z3oyYg%3D%3D)
* Mental health
* unemployment rate - [Dataset Search (google.com)](https://datasetsearch.research.google.com/search?query=unemployment&docid=L2cvMTFtX3hyaHB4cQ%3D%3D)
* business revenue
* birth rate - [Statistics - births, deaths and marriages registered (www.wa.gov.au)](https://www.wa.gov.au/organisation/department-of-justice/statistics-births-deaths-and-marriages-registered)
* divorce
* median house prices (in other countries as well) - [Dataset Search (google.com)](https://datasetsearch.research.google.com/search?query=house%20prices&docid=L2cvMTFqbnl5cTBmaw%3D%3D)
* lockdown counts - [Dataset Search (google.com)](https://datasetsearch.research.google.com/search?query=lockdown&docid=L2cvMTFqY2tzM3hxMA%3D%3D)
* toilet paper sales - [Dataset Search (google.com)](https://datasetsearch.research.google.com/search?query=toilet%20paper%20sales&docid=L2cvMTFuZmJoejhfaw%3D%3D)
* covid news count/media coverage
* crime rate
* Netflix/subscription tv
* politics

# Project Title

Covid Bootcamp

# Team Members

Shruti Hindocha, Laura Trentino, Oksana Ayres, Walton Tan

# Project Description/Outline

Exploring how covid impacted on health, economic and lifestyle.

# Research Questions to Answer

Covid vs Health (deaths, hospitalisation, mental health)

Covid vs Economic (unemployment and business)

Covid vs Lifestyle (entertainment, spending patterns)

# Datasets to be used (Aim for Australia First)

Confirmed Covid Cases

* Date (resolution = Daily)
* Count
* Country
* State
* City
* Geo locations of Test clinics

Vaccination

* Date (resolution = Daily)
* Count
* Country
* State
* City
* Geo locations of Test clinics
* Brand
* Dose 1
* Dose 2
* Age
* Gender
* Industry (optional)

Deaths

* Date (resolution = Daily)
* Count
* Country
* State
* City
* Age
* Gender
* Vaccination
* Geo locations of hospital

Hospitalisation

* Date (resolution = Daily)
* Count
* Country
* State
* City
* Age
* Gender
* Vaccination
* Geo locations of hospital

Unemployment rate

* Date (resolution = Daily)
* % unemployment
* State
* Industry
* Age

Lockdown

* Date
* State
* Duration
* Type

Business revenue

* Date
* Industry
* Region
* State

toilet paper/Sanitiser/masks on sales/manufacturing

* Date
* State
* Sales
* Price

Netflix/subscription tv vs decline in public event ticket (concerts, plays, cinemas, theatre…) sales

* Dates
* Revenues
* Pricing Change
* Count of events

Birth Rates

* Dates
* % per capita
* Counts
* States

House Prices

* Date
* Median prices
* Rental prices
* Suburbs
* State
* Country (eg. 1st world)

Mental Health

Crime Rate

# Rough breakdown of tasks

1. Data Source
   1. Confirmed Covid Cases (Laura)
   2. Vaccination (Laura)
   3. Deaths (Laura)
   4. Hospitalisation (Walton)
   5. Unemployment rate (Oksana)
   6. Lockdown (Shruti)
   7. Business revenue (Shruti)
   8. toilet paper/Sanitiser/masks on sales/manufacturing (Walton)
   9. Netflix/subscription tv vs decline in public event ticket (concerts, plays, cinemas, theatre…) sales (Shruti)
   10. Birth Rates (Oksana)
   11. House prices (Walton)
   12. Mental Health (Shruti)
   13. Crime Rate (Oksana)