



ADSEI-B

Data Visualization Project
(Trends of climate change)



ADSEI-B

Data Visualization Project

Topics

Project Scope

Deliverable

Past Sprints

Present Progress

Future Scope

Project Scope

Visualization of a selected data set for meaningful insight generation.

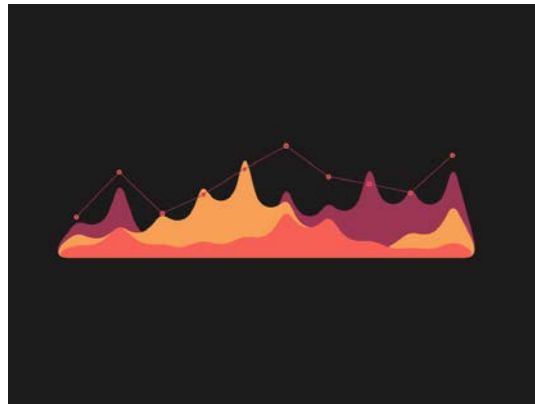
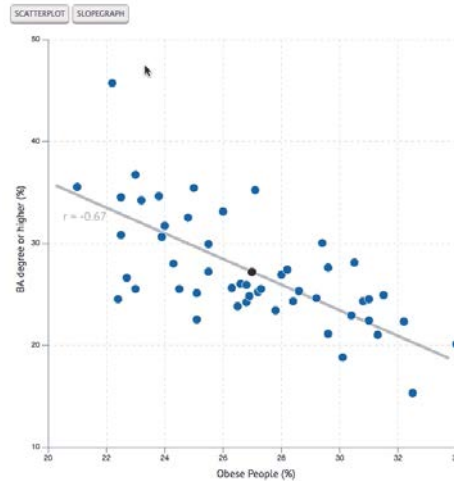
Data **Visualization** Project

<i>Sales Rep Name</i>	<i>Quarter</i>	<i>Date</i>	<i>Sales</i>
Jane	Q2	1-Apr-13	2846
Tom	Q1	12-Jan-13	2047
Albert	Q1	16-Feb-13	3430
Susan	Q4	8-Nov-13	4890
Jamie	Q2	21-May-13	3764
Arjun	Q2	30 jne 2013	3488
Arvind	Q3	21-Aug-13	2630
Sumit	Q4	2-Dec-13	2799
Bruce	Q1	20-Mar-13	3185



Deliverable

- Stand Alone Executable Visualizations that can be configured accordingly by the client.



Our Approach

Data Selection



Data Cleansing



Data Visualization



Data Prediction (Future Scope)



Past Sprints

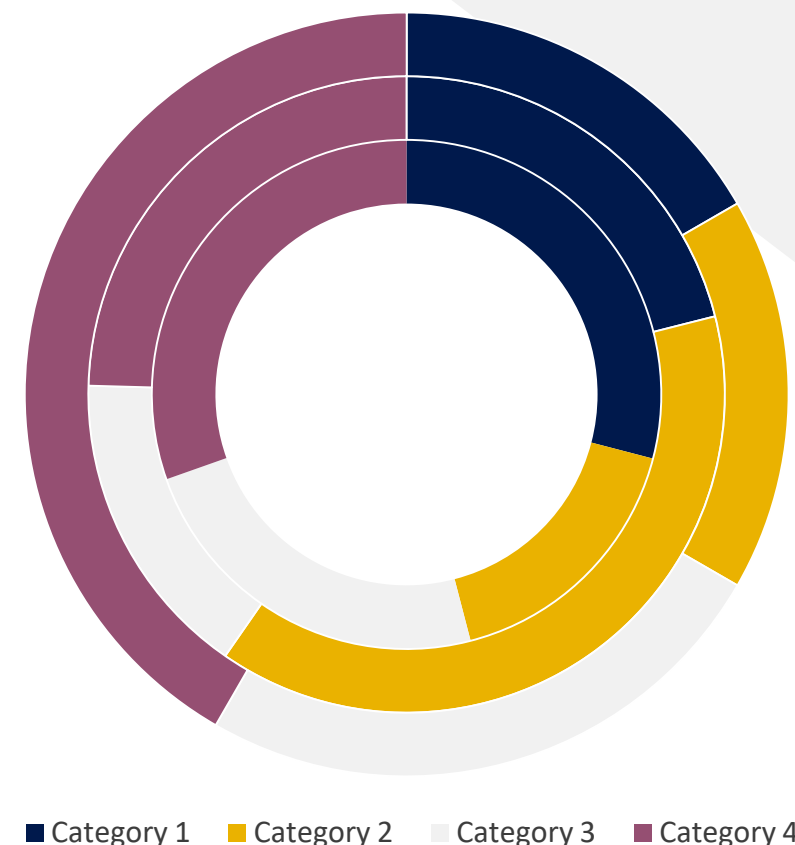


1. Dataset Selection

Dataset: Climate Change: Earth Surface Temperature Data

Source: <http://berkeleyearth.org/>

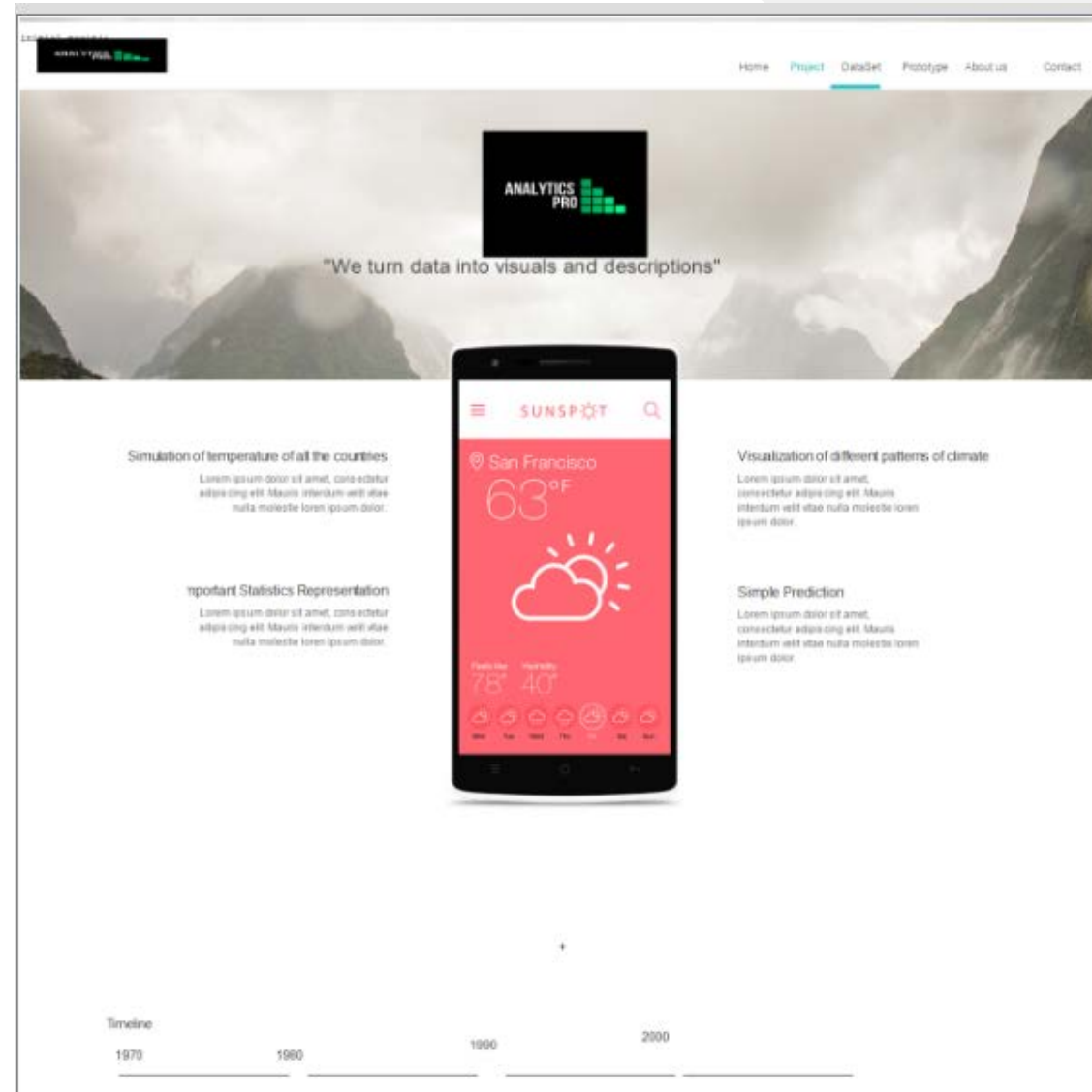
Attribute Name	Type	Description
Dt	Date	Defines the date of record taken
AverageTemperature	Real	Defines the recorded average temperature of one day.
AverageTemperatureUncertainty	Real	The difference/average errors or deviation.
City	Text	The city where temperature has been measured.
Country	Text	The country where temperature has been measured.
Latitude	Real	Latitude of the place.
Longitude	Real	Longitude of the place.



Past Sprints

2. Prototype Setup

Link: <https://bit.ly/2MwOnlf>



Past Sprints



3. Visualization Mockup

Link: <https://bit.ly/2whFnGq>



Present Progress



1. Website Setup

Link: <http://adseib.0fees.us/>

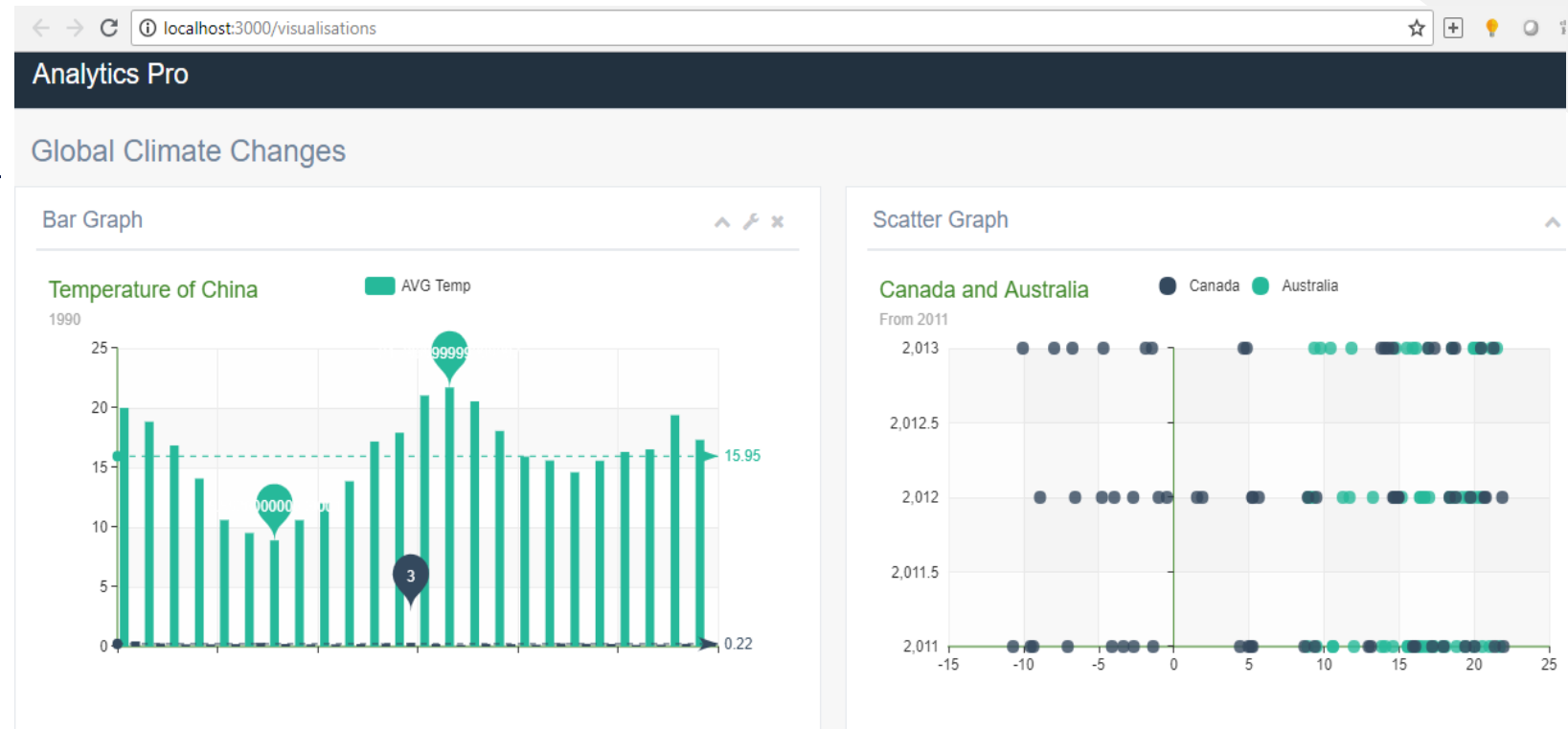


Present Progress



2. Pilot Visualizations

Link:
<http://localhost:3000/visualisations>



Proposed Visualization Patterns

Temperature representation of different countries.
Temperature representation by cities of a country.
Statistical representation of temperature and its trend.
Representation of mostly affected countries by temperature hike.
Necessary prediction of temperature which might occur in near future (future scope).

Basis
Statistics

Pie Chart

Bar chart

Box Plot

Histogram

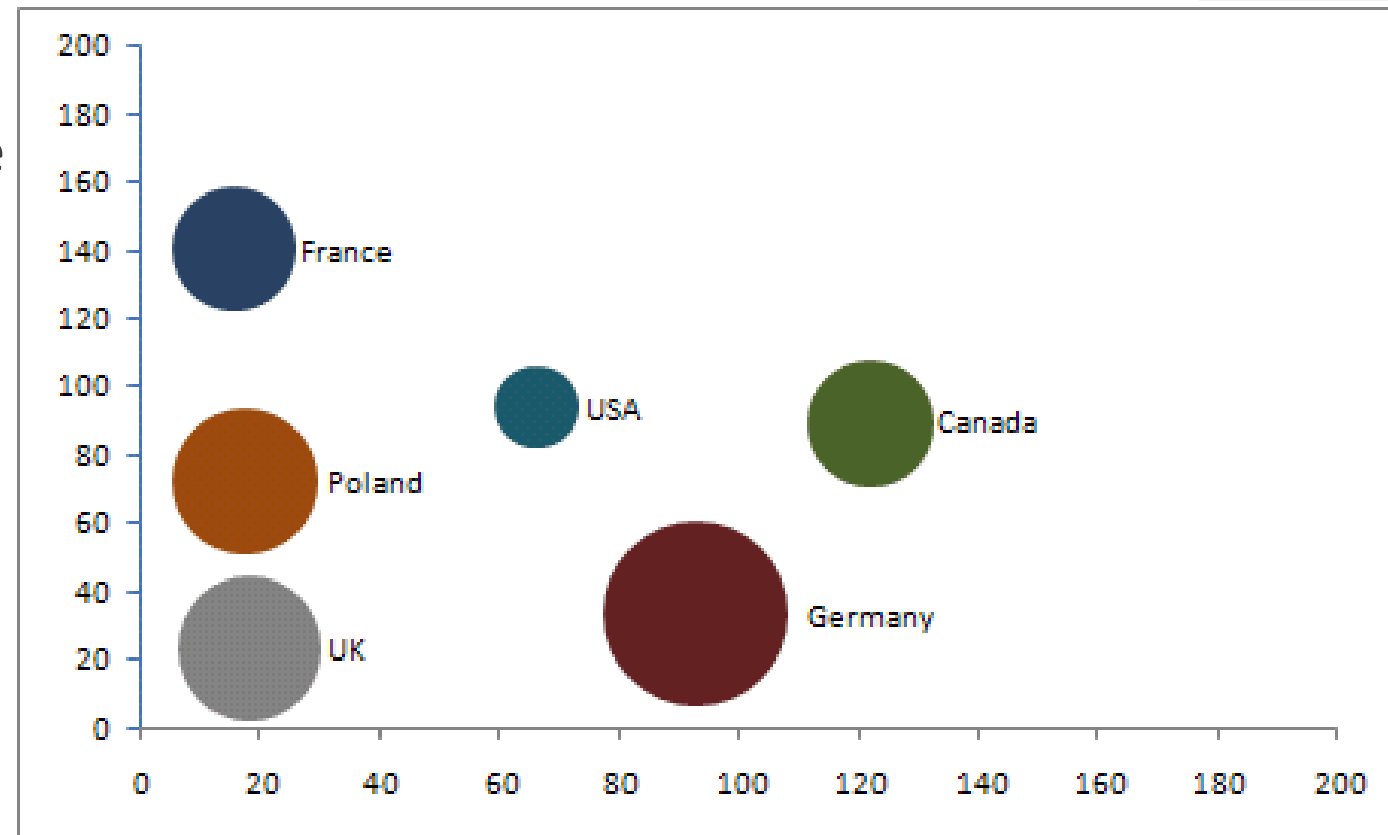
Bar stacked

Scatter Plot

Bubble
Representation

Future Sprints

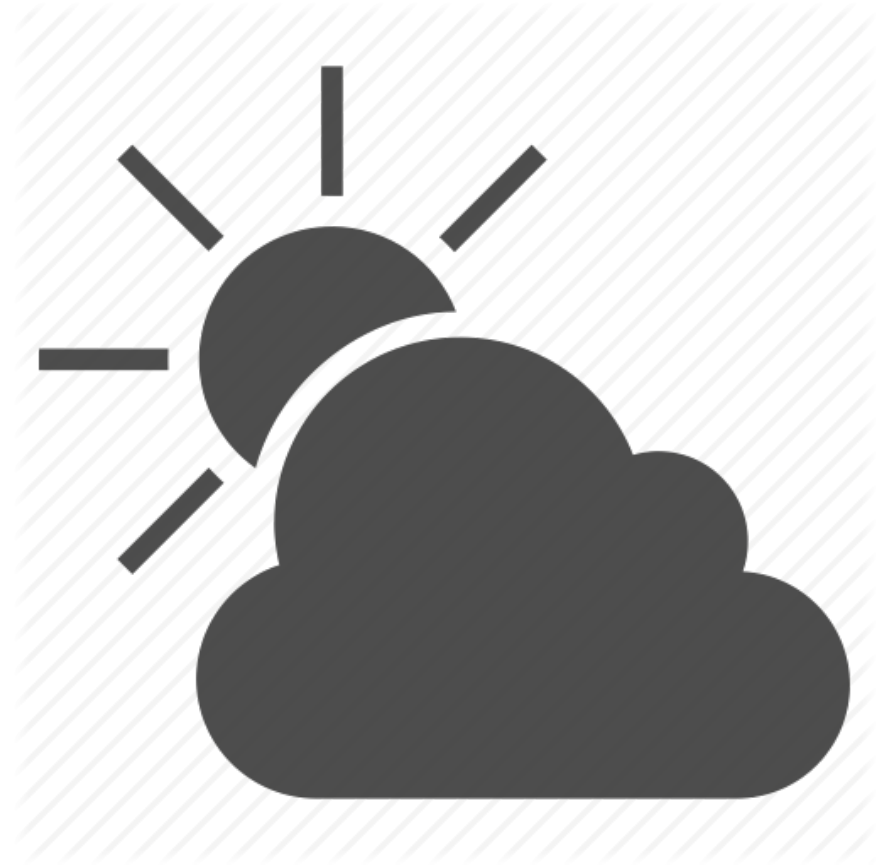
- Adding few more interactive visualizations.
- Deploying it in free server.
- Creating executable file to integrate standalone visualization .

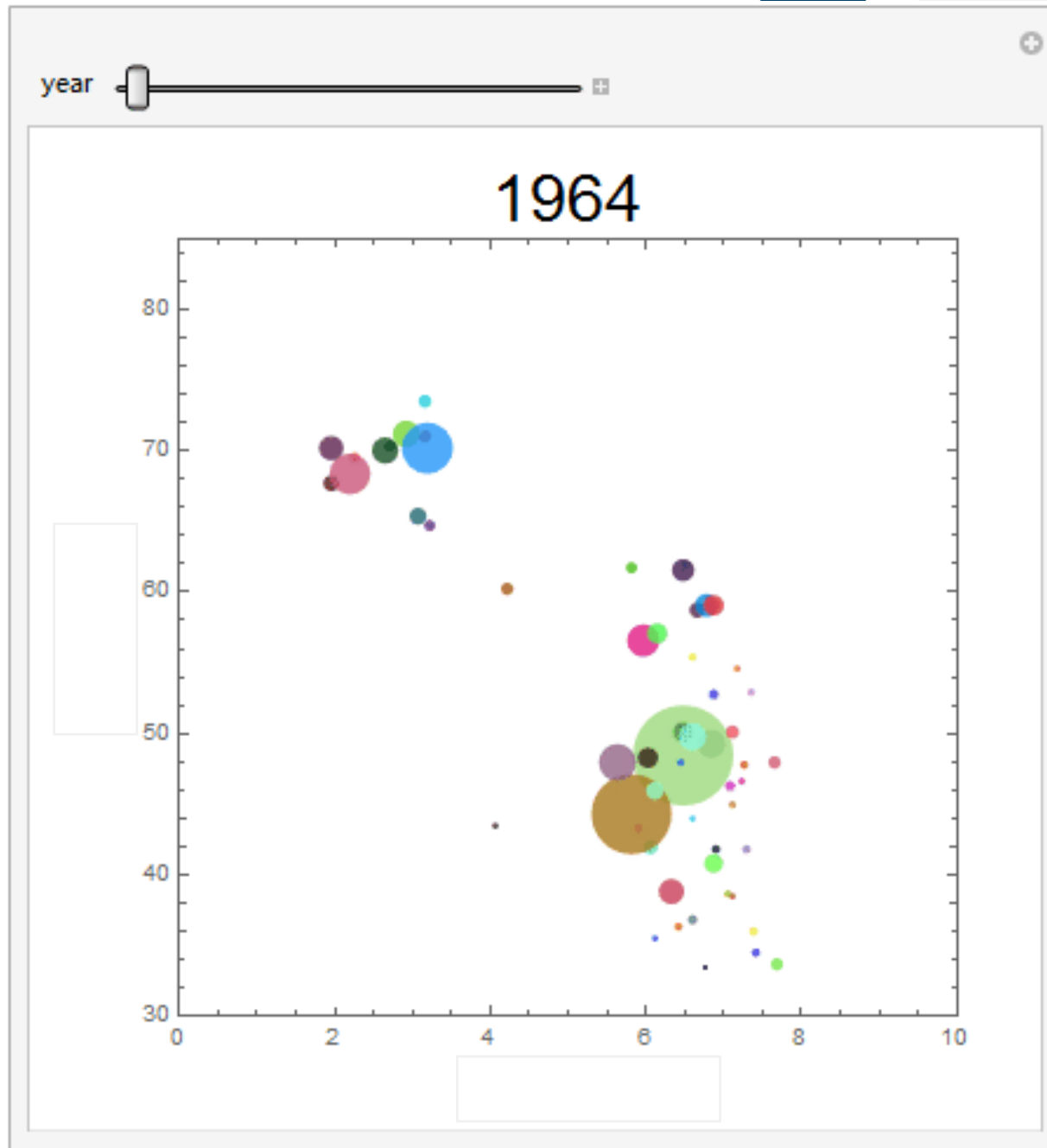


Future Scope

Data Prediction

Model Selection
Training data set
Accuracy Determination
Making Prediction





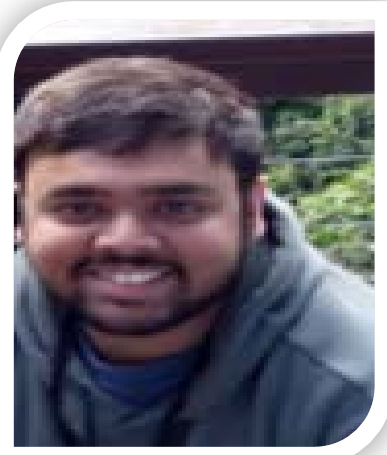
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Thank You.

Feedbacks Received

Feedbacks:

- Begin presentation with the motivation and purpose of project before diving deep into the content.
- When integrating images in the slides, background colour and contrast should be taken into consideration.
- The images and texts should be contained within the total frame of the presentation.
- URLs linking the slide to product prototype shouldn't be included in the slides. The product demonstration should be done after the completion of presentation.
- Placement of images or graphs should be centred reflecting its priority in the context.

Things To Do

Things to do:

- Put more emphasis on the beginning of the presentation to grab hold of attention by focusing on purpose of the overall project.
- Select images and text backgrounds wisely such that it provides proper colour contrast and clarity.
- Make sure all given images are within the frame of the presentation and not too stretched.
- Remove URL links given in the presentation.
- Remove Deakin Logo from the upper-right part of the slide and instead use transparent PNG logo such that it doesn't obstruct content.

