

## FIT5147: DVP Part -1

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### COMPARATIVE STUDY OF BANKING INDUSTRIES OF AUSTRALIA AND INDIA

#### INTRODUCTION

This scope of this current project is to examine the performances of Banking Industries in Australia and India and draw a comparison between them by taking the top 5 banks of each country. In an era of globalization and interconnected financial markets, understanding the dynamics and performance of banking industries across different countries is paramount. With this in mind, this data visualization project aims to conduct a comparative study of the banking industries of Australia and India. By leveraging data analytics and visualization techniques, we seek to uncover insights into key aspects such as market structure, financial performance, regulatory frameworks, and technological advancements within these two economies.

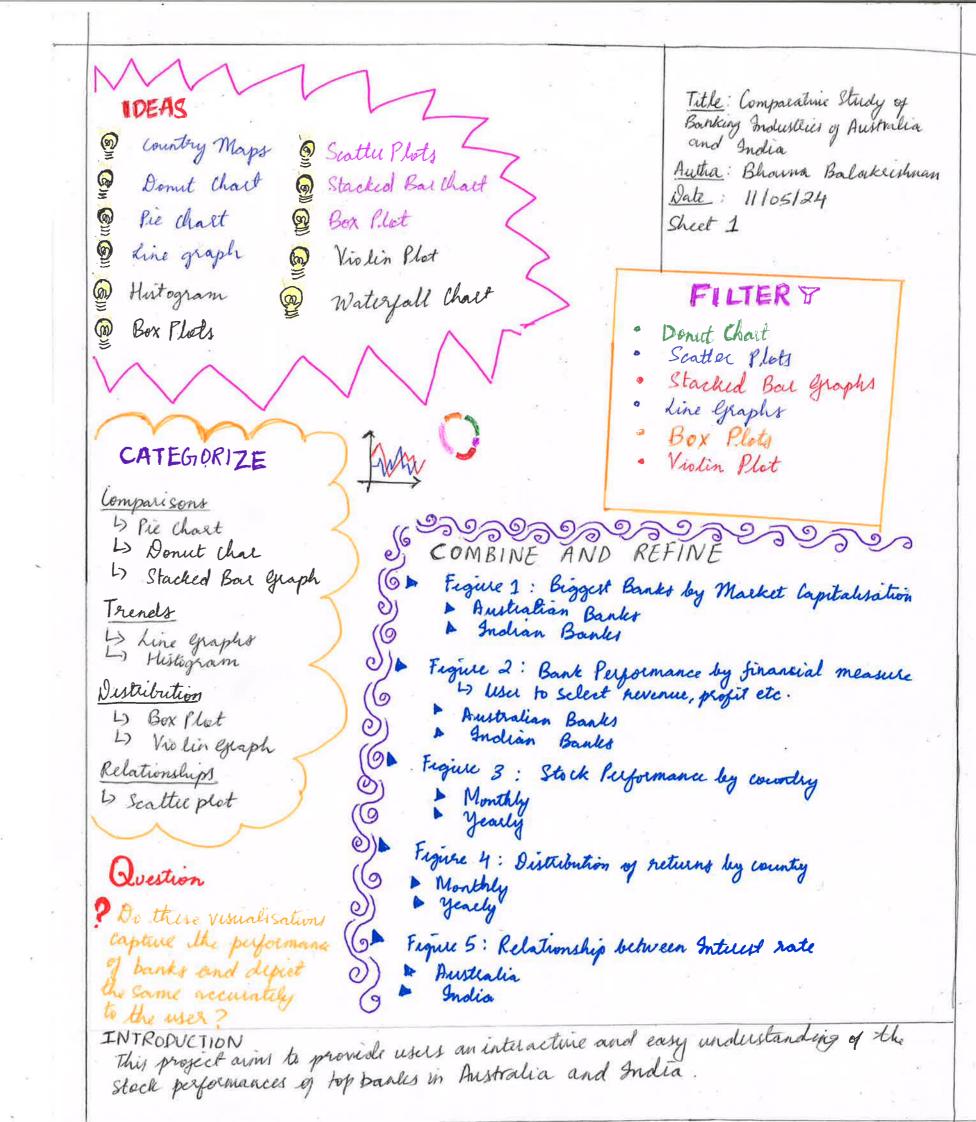
The main aim of the project is to understand the following-

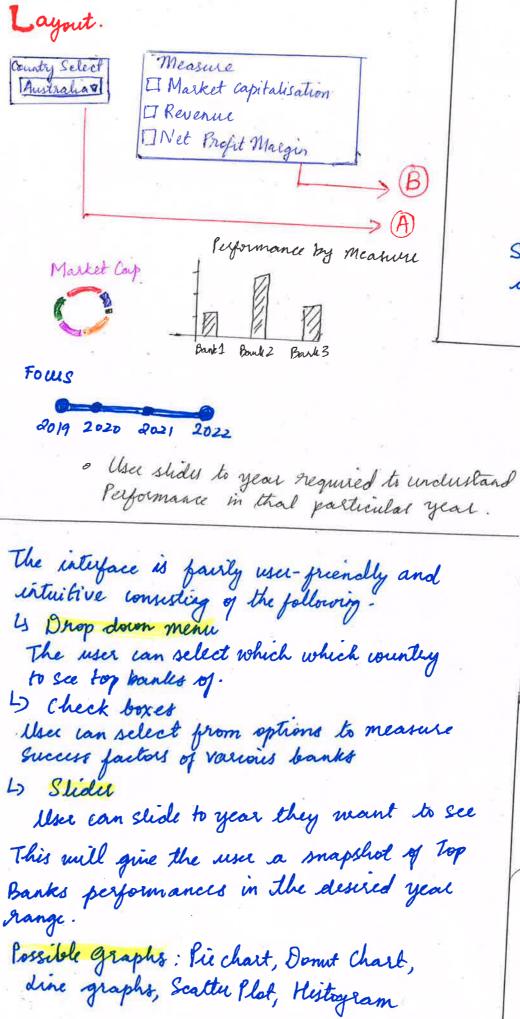
- 1. What is the current situation and position of the Banking Industry in Australia and India?
  - a. How do both of these industries compare to each other?
- 2. How are Australian and Indian Banks performing in the stock market and how stable of an investment it would be to buy their shares?
  - a. How investing in the banking industry may or may not be advisable.
  - b. How are the stocks performing generally? We can observe the return distribution to understand this.
  - c. How risky is it to invest?

    We can do this by understanding the risk of shares by examining volatility
- 3. How bank performances may affect interest rates?

#### **MOTIVATION**

The main motivation for me is to provide users a user friendly and easy to use interface that gives them a broad understanding of the banking industries in both countries and how they are performing. I, myself am a former Business student who specialised in Finance and has work experience in the Banking sector which made me want to delve into the topic here.





Title: Enapshot of Banking Inclustry by Country Author: Blaina Badakrishnan Sheet -2

Operations

- A llu chooses country
- B User chooses the measure to depict performance Slider for user to choose desired year overview

PROS

> User interactive
> Comprehensive overview

of Banking Industry.
> Shows the overall market
capitalisation and other
measurables for banks by county

CONSZ

More visualisations like country map for location of branchis mould be appealing but no data source of same found.

OUTPUT:

- Donast Chart / Pie Chart
- Beer chart - Stacked bar chart
- Histogram.

Question to what is the general picture of the Banking Industry in each country?

| Sele | ct li | untry |
|------|-------|-------|
|      | ralio | 2 V   |
| Indi | a     | f     |

(a) Allows user to select

Title: Stock Performances of Banks Author: Bharna Balakrishnan Date: 12/05/2024 Sheet - Z Task: Overview of Banking Performance

D'Allows user to select which frequency of time they would like to see Performance.

Select Time Period

Dyearly

Monthly

This section depicts bank performances by calculating returns using below formula:

$$R = \frac{P_1 - P_0}{P_0}$$

It will then give the user an output of a line grouph based on the user inputs.

Graph will also include details where the uses hovers the cursor over the graph -

4) Bank name

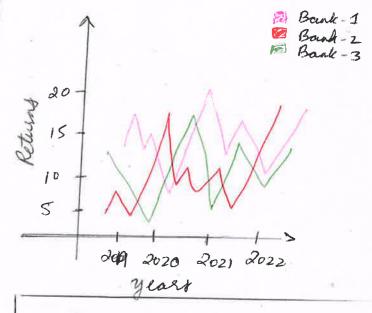
Possible Graphs

· Histogram, Borgraph

· Scattle flat Bubble Chart

· Line Chart

Does this Section capture the overview of the banking sector in Each country properly? In terms of performance?



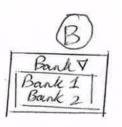
# OUTPUT

Line chart depicting bank performance differentiated by volour.

Visually Intuitive diagram allowing ease of understanding by graphing performance side by side.

User would require little financial knowledge to draw best conclusion





Title: Study of Stock performance distribution and volatility Author: Bhavna Balakrishnan Date : 12/05/2024 Sheet 4

Operation

Drop Down Menu for user to select Country Drop down menu for user to select Bank

This Section focuses on providing the user mith an understanding of how Volatile the stocks of the selected bank is performing.

Volatility is important to understand the price fluctuations and therefore the risk of holding that particular stock.

Formula 6 = Z(R+-R+)2

Possible Graphs

- · Violin graph
- Box Plot
- Scattle Plot
- Histogram

4) Apt deagrams to explain Performance distribution

4) Have to define current! appropriate time periods muthin which to show







Violin graph and box plots both are good visualisations to depict the distribution of stock performance.

Interactive user inputs to get the diagram for chosen bank.

