



Foreign Direct Investment Analysis

By Unmilan Baruah



Introduction

Investment is a game of understanding historic data of investment objects under different events but it is still a game of chances to minimize the risk we apply analytics to find the equilibrium investment. To understand the Foreign direct investment in India for the last 17 years from 2000-01 to 2016-17. This dataset contains sector and financial year-wise data of FDI in India. This report explains the key metrics and factors and shows the meaningful relationships between attributes.

Purpose

- To analyze year-wise investment in India.
- To analyze sector-wise investment in India.



Methodology

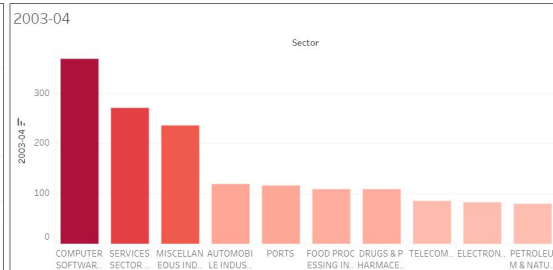
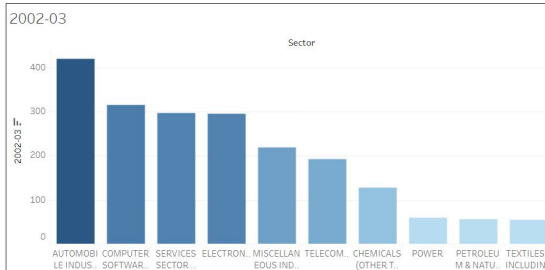
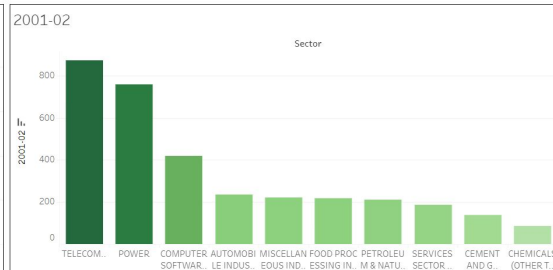
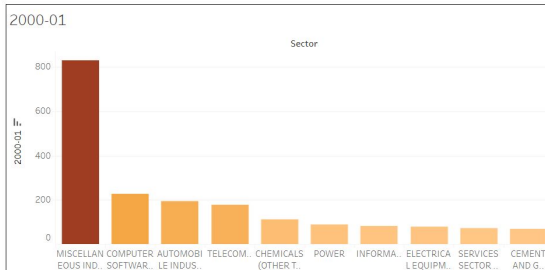
1. ETL (Extract, Transform, and Load): Collecting the data, transforming it into something which can be analyzed with accuracy, and loading the processed data for further analysis.
2. Data Analysis
3. Observations
4. Inference

ETL (Extract, Transform, and Load)

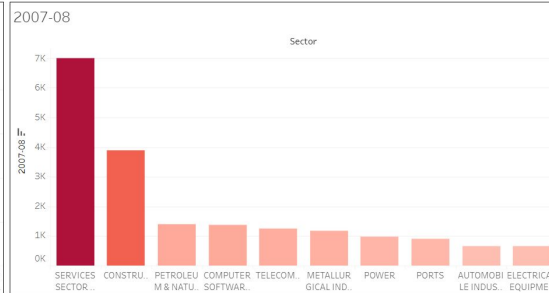
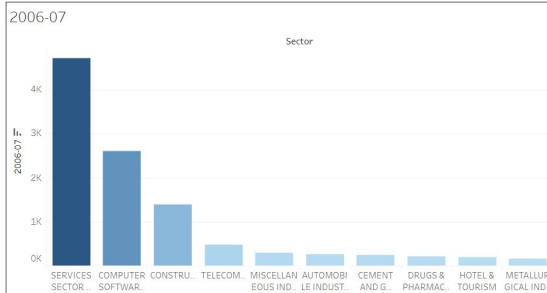
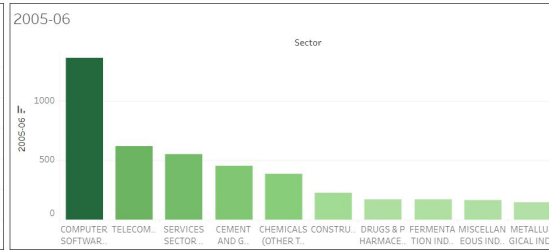
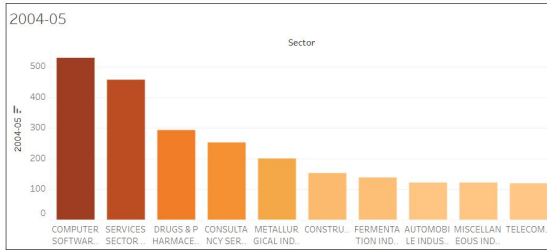
- The data source is named as “**FDI data.csv**” and this CSV file records related to production of crops.
- There are total **63** entries, but no null values. Therefore, data cleaning is not required.
- Also, for the accuracy of the analysis and to avoid bias, we won't remove the outliers. Also, we aren't making any machine learning model for performing predictive analysis. So, removing the outliers is not an appropriate option.



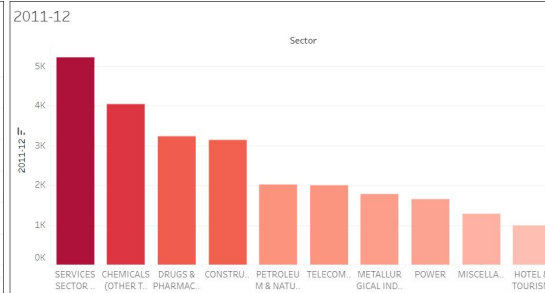
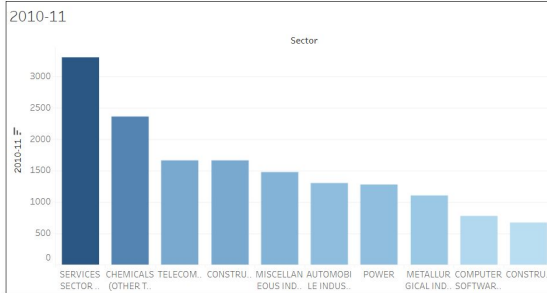
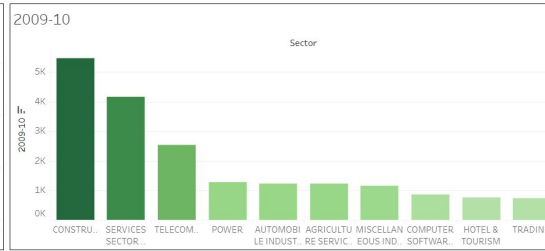
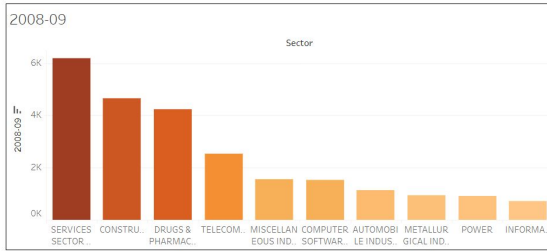
Data Analysis



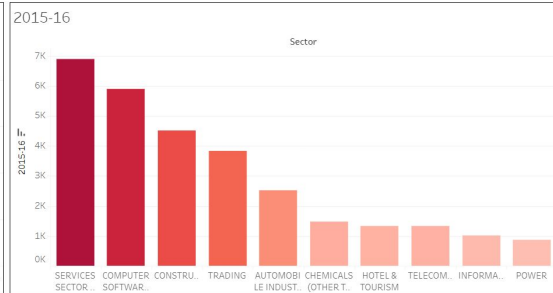
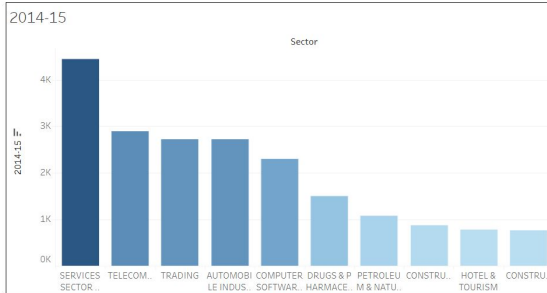
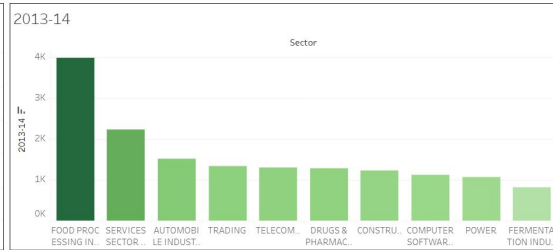
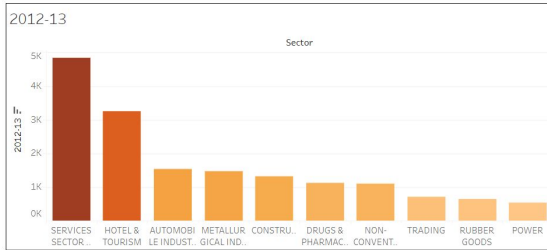
Data Analysis



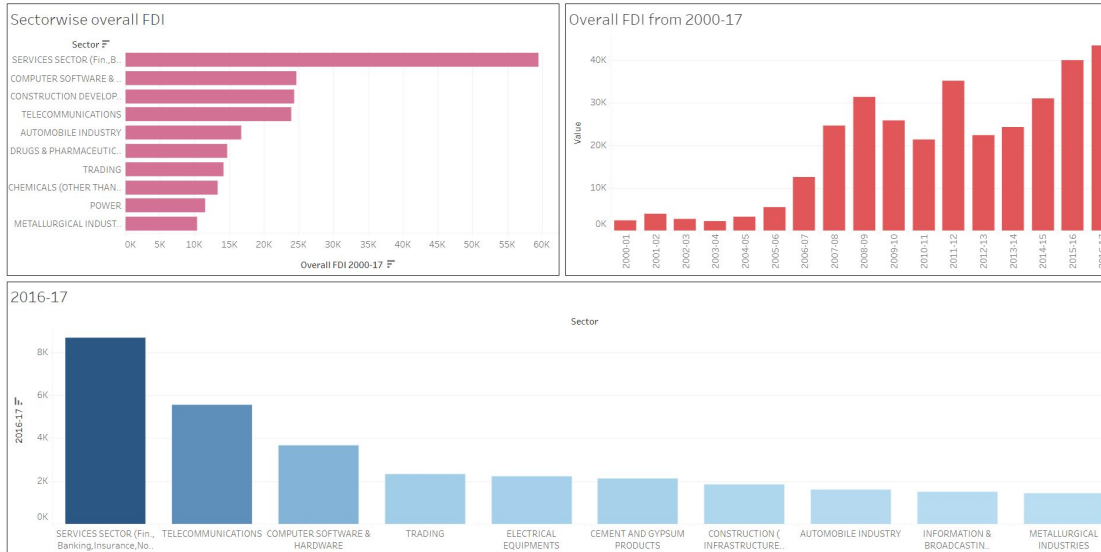
Data Analysis



Data Analysis



Data Analysis



Observations

- Investment was the highest for the year **2016-17**, followed by the year **2015-16**.
- Overall investment in **SERVICES SECTOR** is the highest, followed by the **COMPUTER SOFTWARE & HARDWARE** sector.
- For 2003-04, 2004-05, and 2005-06, the investment was highest for **COMPUTER SOFTWARE & HARDWARE** sector. However, the investment in **SERVICES SECTOR** remained the highest from 2006 to 2009, and then again from 2010 to 2013. The investment continued to be the highest for the **SERVICES SECTOR** from 2014 to 2017.



Inference

- Gradual increase in investment has been observed in India from the year 2000 to 2017. This implies that foreign companies are convinced with the political, economic, and social stability of India.
- In terms of investment, the **COMPUTER SOFTWARE & HARDWARE** sector remained dominant from **2003** to **2006**.
- After 2006, in terms of investment, the **SERVICES SECTOR** remained the dominant. Even though, the investment is not the highest for **SERVICES SECTOR** in 2009-10, and 2013-14, the sector still remained the second dominant.



Inference

- Moreover, from 2000 to 2006, gradual increase in foreign investment in the **SERVICES SECTOR** was observed.
- The two most dominant sectors in terms of investment are the **SERVICES SECTOR**, and the **COMPUTER SOFTWARE & HARDWARE** sector. Therefore, it is beneficial to promote these two sectors by increasing job opportunities in these sectors for both experienced as well as freshers.



Thank You

