



Foreign Direct Investment Analysis

DETAILS PROJECT REPORT

BY,

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Project Details

- ▶ Project Title - **Investment Analytics**
- ▶ Technology - **Business Intelligence**
- ▶ Domain Name - **Finance**
- ▶ Programming Language - **Python (Pandas, Numpy, Matplotlib)**
- ▶ Tool used - **Jupyter Notebook**
MS Excel , MS Word, MS Power Point
MS PowerBi

Objective

The goal of this project is to understand the Foreign direct investment in India for the last 17 years from 2000-01 to 2016-17.

Problem Statement

- ▶ 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
 - Sector-wise investment analysis
 - Year-wise investment analysis

Architecture



Data Collection & Loading Dataset

- Collecting data from various sources (Inner & Outer System).
- Loading data for further process using in-built library in python programming language (pandas).



Data Preprocessing & EDA

- Imputation of missing & null values, finding & handling outliers.
- Data cleaning and exploratory data analysis using libraries such as pandas, matplotlib.



Data Visuals, Create Dashboard & Report

- Create amazing visuals (bar graph, pie chart, area chart) to understand data with using MS PowerBI tool.
- Extract meaningful information, and create some amazing dashboards, stories, and report for better understanding of data.

FDI Analysis

Sectors

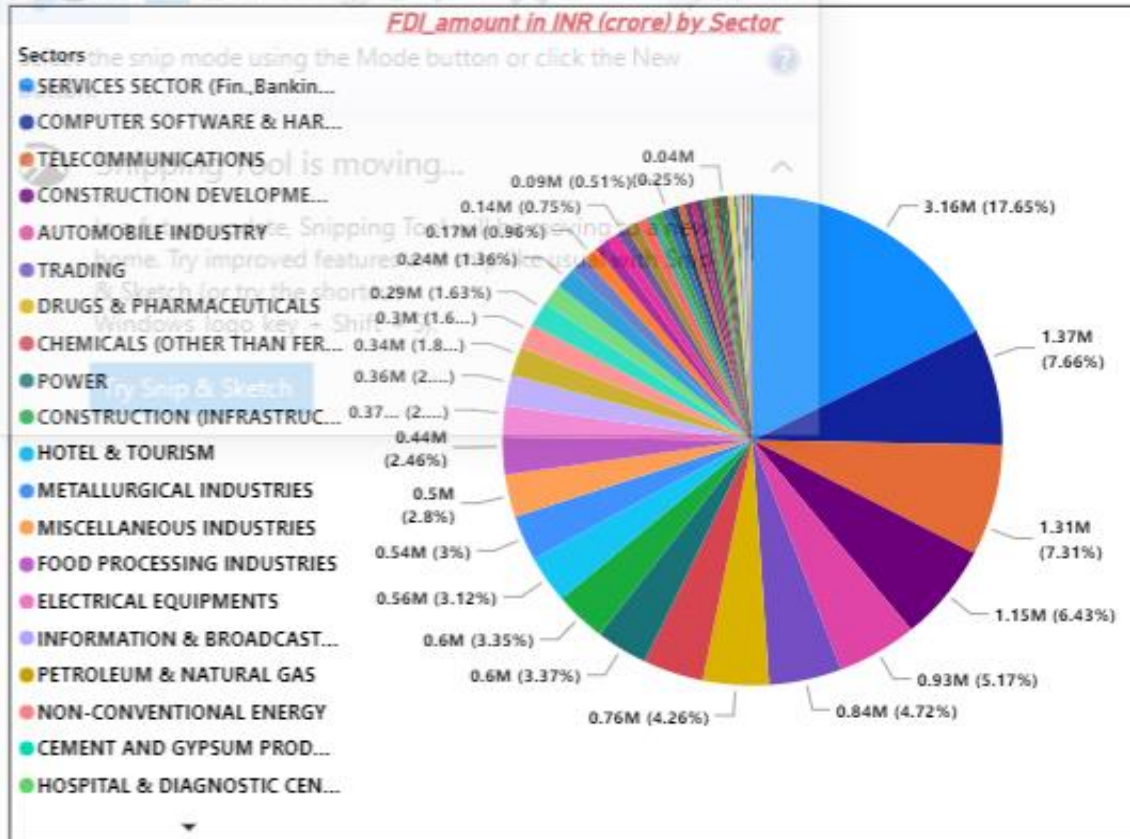
All

17,918,803.48

FDI_amount in INR (crore)

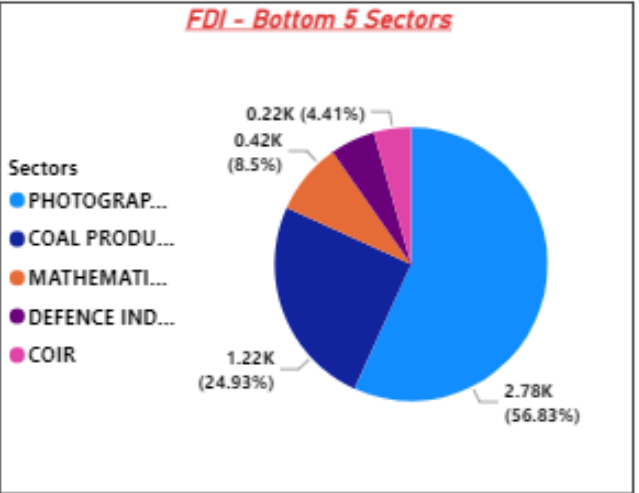
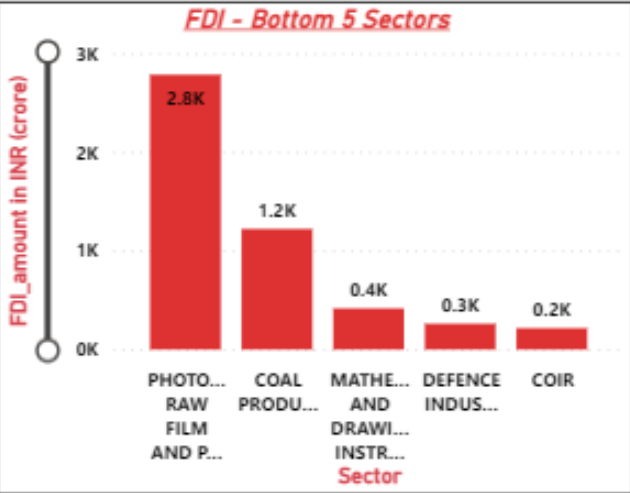
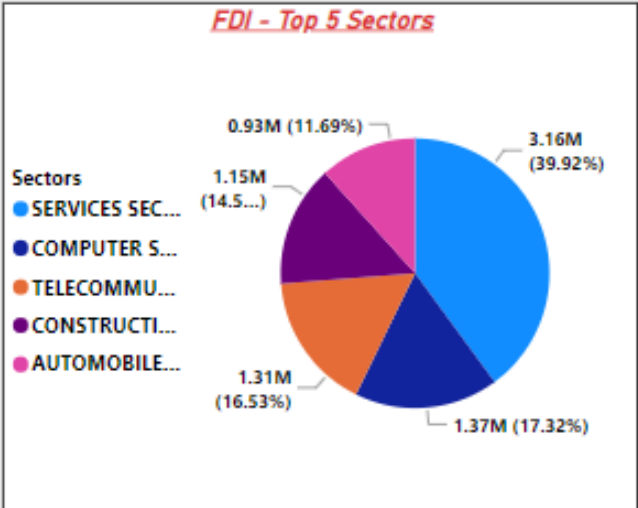
331,990.99

FDI_amount in USD (million)

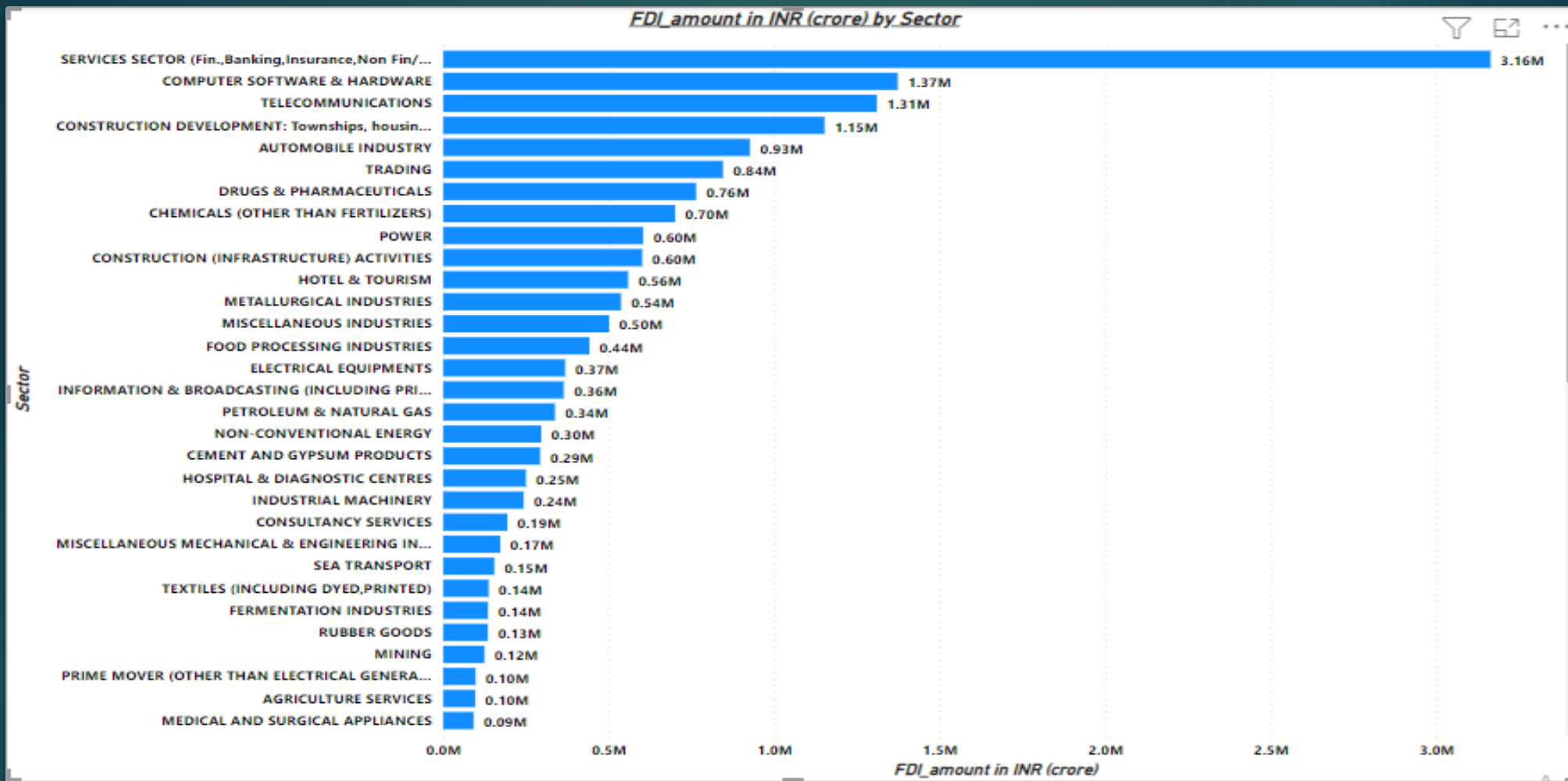


- Service Sector received around ₹316kCr FDI from FY 2000-01 to FY 2016-17 which was the highest, details regarding other sectors are also available.
- From the Line-chart we can see the trend of FDI Inflow.

Among Top 5 Sectors Service sector has the highest FDI inflow having 39.92%, followed by the Computer Software and Hardware, Telecommunication, Construction development, Automobile Industry sector having 17.32%, 16.53 %, 14.54%, 11.69% respectively



Among Bottom 5 Sectors COIR has the lowest FDI Inflow 4.42%, followed by Defense Industries, (Mathematical, surveying and Drawing instruments), Coal Production, Photographic raw film and paper sector having 5.33%, 8.49%, 24.93%, 56.83%.



The above chart shows the total amount of FDI inflows in India during the last 17 years. The FDI inflow from 2000-2001 i.e. ₹10.87kCr. in 2001-02 it was ₹19.21kCr. It shows a Good result in the FDI inflows in India. Little bit ups and downs in FDI inflows, but after that great hike in the year 2007-08. In 2008-2009 there was a huge investment in FDI in ₹144.39kCr and so on. But again there were some fluctuations in the inflow of FDI in the years between 2010-2014, soon giving the highest figures in the last 17 years ₹291.61kCr FDI in 2016-2017 So we can say that the foreign investors have been on rising in India.

Conclusion

- ▶ The Sectorial composition of FDI over the period of April 2000 to June 2017, we can find that the largest recipient of such investment is Service sector (Financial and non-financial services). The share of this sector comparing to all sector is 17.65 % of the inflow total foreign direct investment.
- ▶ The foreign investors are interested in mainly financial services due to its profit generating advantage. This sector gives scope for the foreign investor to take back the profits to the home country. As service sector the services are consumed in the host country and there by generating outflow of funds from the host country.
- ▶ The second recipient is Computer software and Hardware sector which shares 7.66% of total FDI. Construction development, Telecommunication, Automobile Industry sector having 7.31%, 6.43%, 5.17% respectively.
- ▶ The keys takeaways regarding global flows are – the increase in the relative share of developing countries as both destination and sources and flow to the sector gaining over manufacturing.
- ▶ India's total amount of FDI inflow during 17 years, i.e. 2000 to 2017. The FDI inflow from 2000-2001 i.e. 10.87kCr in 2001-02 it was 19.21kCr. It shows a Good result in the FDI inflows in India. A little bit of ups and downs in FDI inflows up to 2005-06 but after that great hike in the year 2007-08 i.e. 98.94kCr as compared to earlier years. In 2008-2009 there was a huge investment in FDI in 144.39kCr. But then there was a downfall in the Inflow of FDI in two consecutive years 2009-2010 and 2010-2011, with figures 122.56kCr and 97.42kCr respectively. We can Analyse from the graph that in the year 2015-2016 the inflow of FDI was second highest of last 17 years i.e. 261.85kCr. In the year 2012-13 and 2013-14 the FDI inflow fluctuated from 121.98kCr to 147.01kCr respectively. In the last Financial Year i.e. 2016-2017 the amount of FDI Inflow were 291.61kCr which is the highest FDI inflow in the last 17 years.

Thank You