



FOREIGN DIRECT INVESTMENT ANALYSIS

Detailed Project Report

PROJECT DETAIL

| Project Title | Investment analytics |
|----------------------|--|
| Technology | Business intelligence |
| Domain name | Finance |
| Programming language | Python |
| Tools | Jupyter notebook, Ms Excel Ms Power Bi |

OBJECTIVE

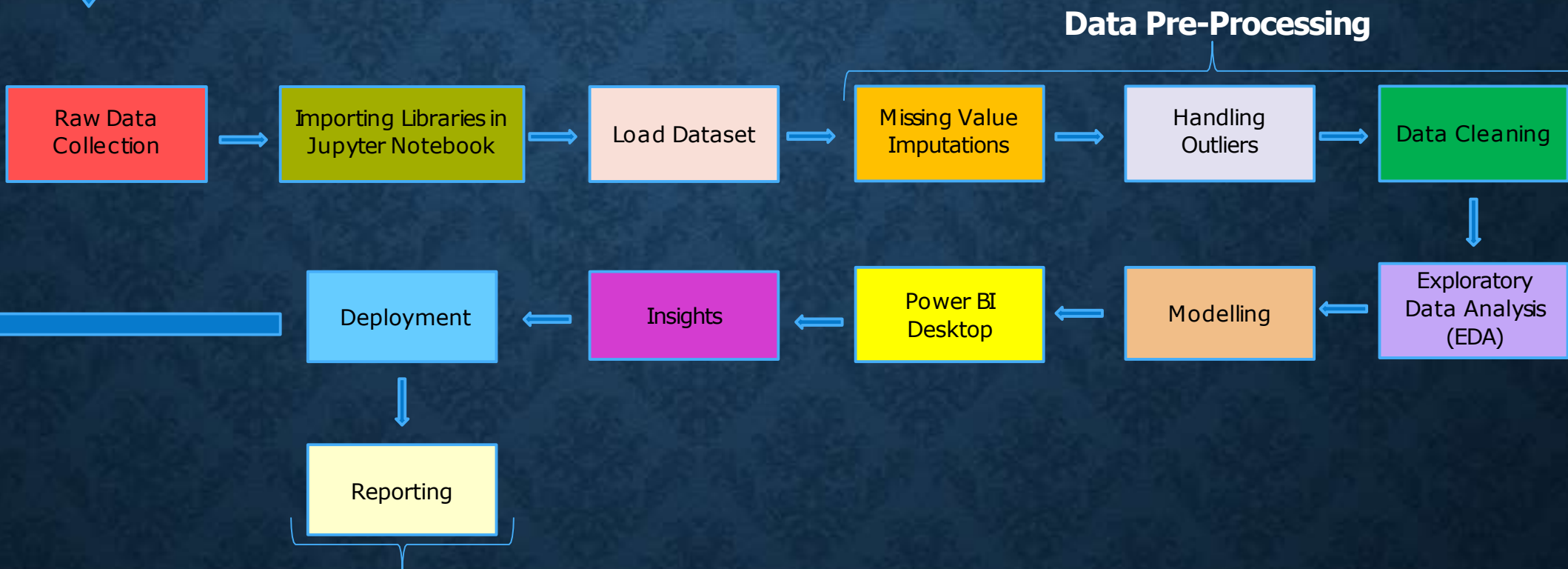
The goal of this project is to understand the Foreign direct investment in India for the last 17 years from 2000-01 to 2016-17.

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

Real World



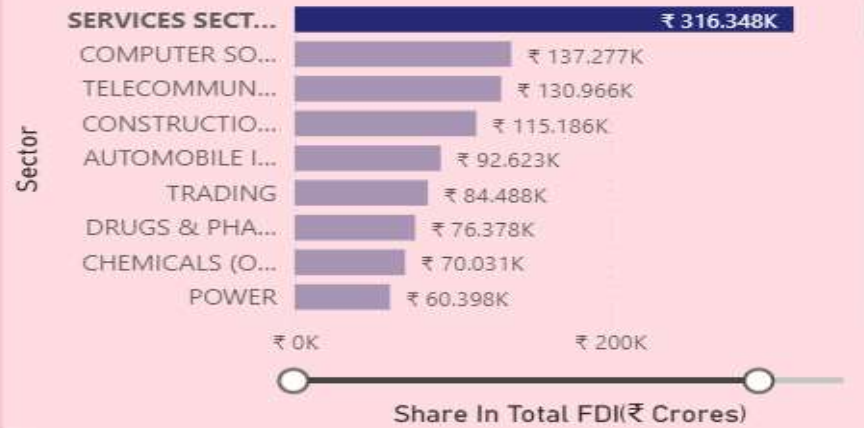
- ✓ Low-Level Design Document
- ✓ High-Level Design Document
- ✓ Architecture Document
- ✓ Wireframe Document
- ✓ Detailed Project Report

DATASET INFORMATION

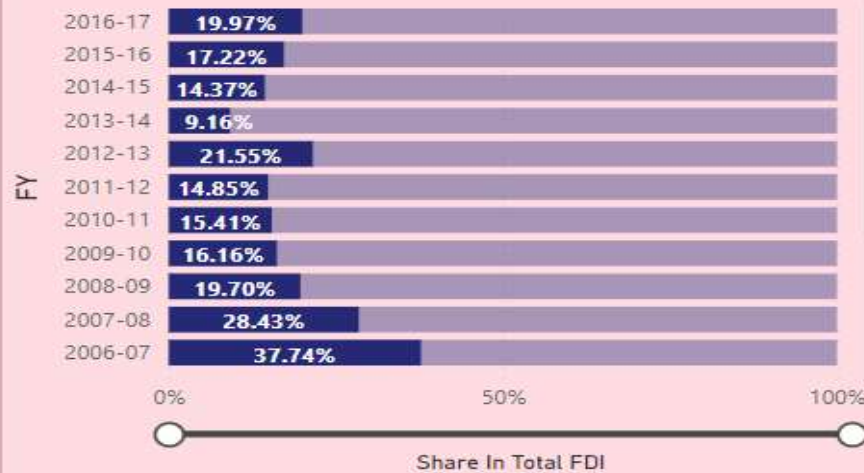
This dataset contains sector-wise and financial year-wise data of FDI in India

FDI ANALYSIS DASHBOARD

Sector-wise Share In FDI



Year-wise Share of a Sector



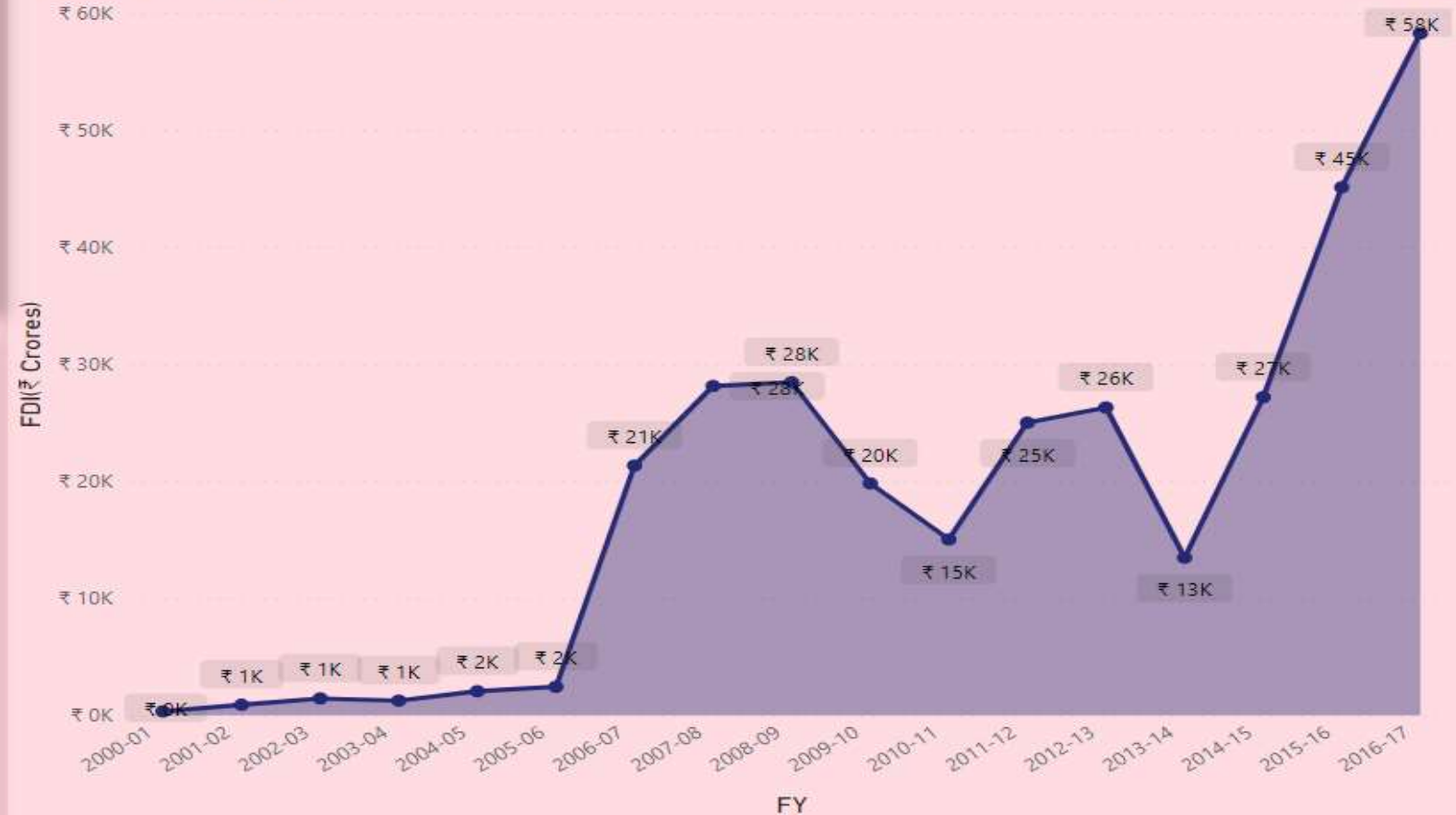
₹ 3,16,347.59

FDI (₹ Crores)

\$59,476.49

FDI (US\$ Million)

Year-wise FDI Inflow

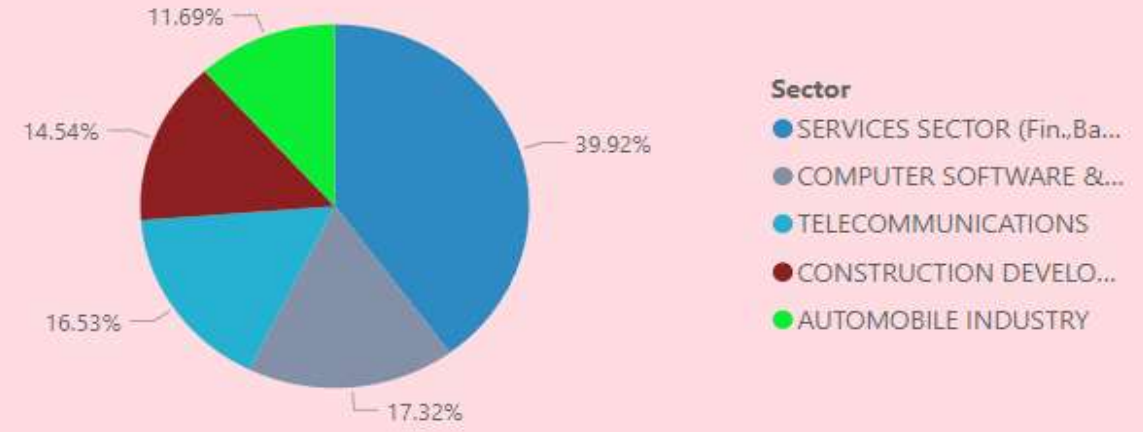


- Service Sector received around ₹316kCr FDI from FY 2000-01 to FY 2016-17 which was the highest, details regarding other sectors are also available.
- From the Line-chart we can see the trend of FDI Inflow.

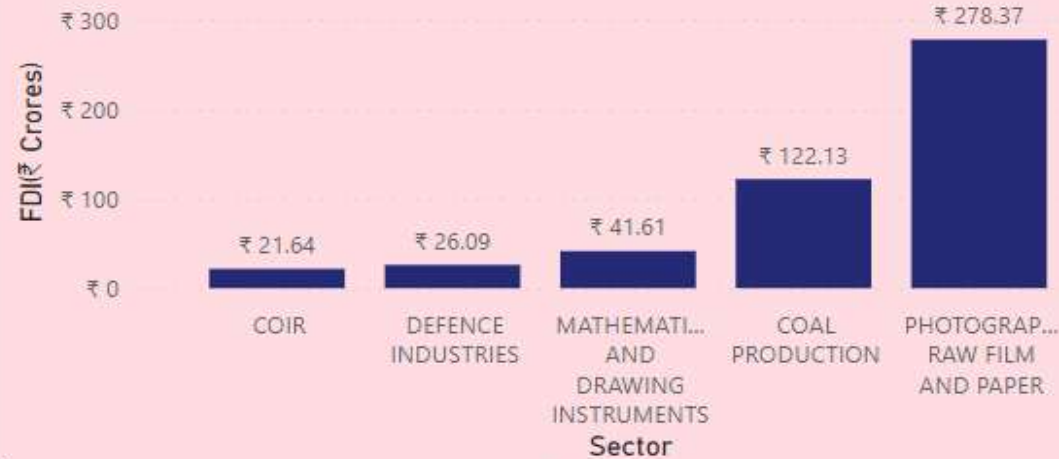
Top 5 Sectors by FDI Inflow



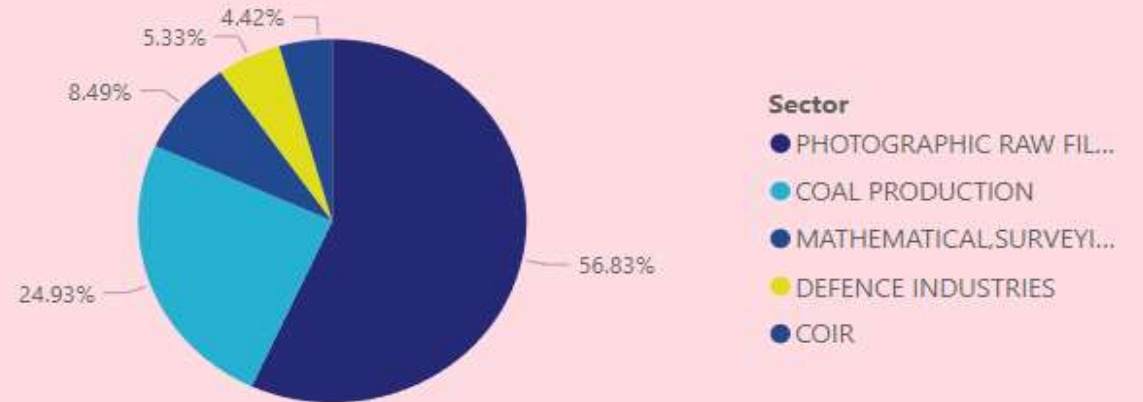
Share Among Top 5 Sectors



Bottom 5 Sectors by FDI Inflow

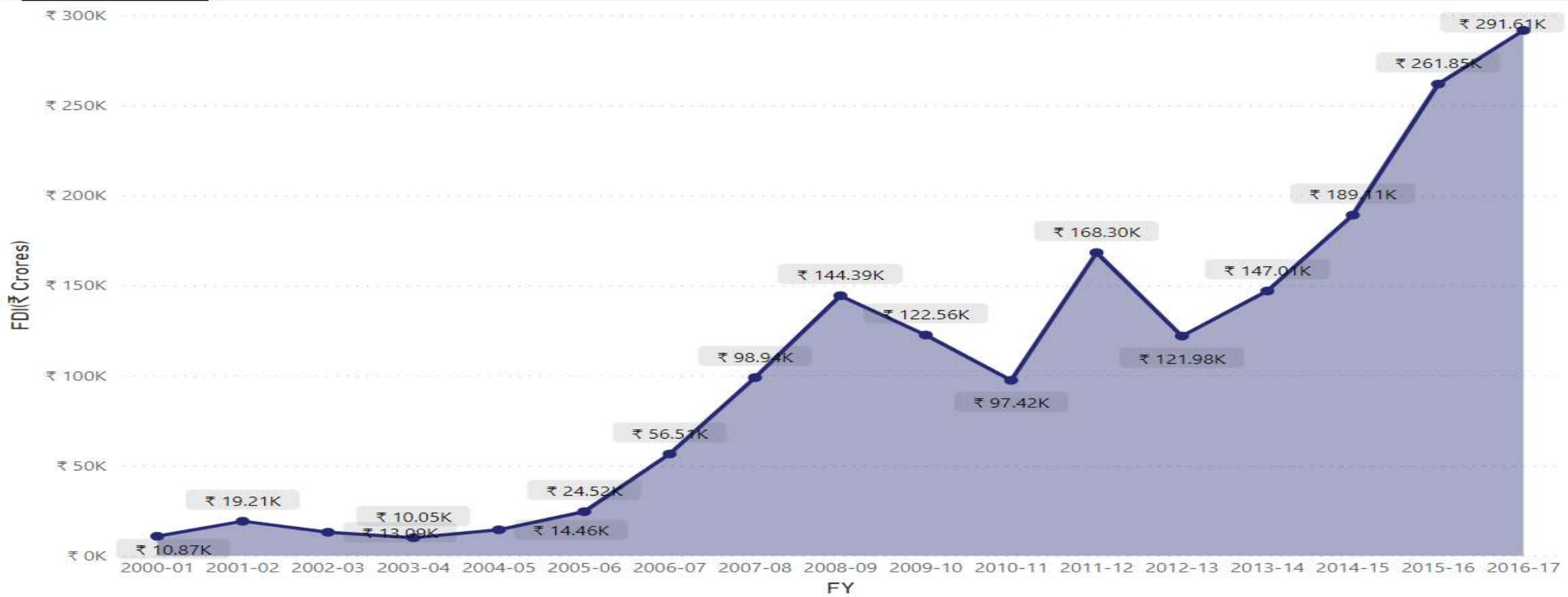


Share Among Bottom 5 Sectors



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 Defence 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

SECTORAL COMPOSITION OF FDI:-

- The Sectoral 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.

FY-wise GROWTH ANALYSIS:-

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.

QUESTIONS AND ANSWERS

Q1) What's the source of data?

Ans) The Dataset was taken from iNeuron's Provided Project Description Document.
<https://drive.google.com/file/d/1NoQ1N-ggSAODf5vsSLR-vhyKAIzoFH1G/view?usp=sharing>

Q2) What was the type of data?

Ans) The data was a combination of numerical and Categorical values.

Q 3) What was the complete flow you followed in this Project?

Ans) Refer slide 5th for better Understanding

Q4) What techniques were you using for data?

Ans) -Removing unwanted attributes
-Visualizing relation of independent variables with each other and output variables
-Removing outliers
-Cleaning data and imputing if null values are present.
-Transforming data to yield the desired result.

Q 6) What were the libraries that you used in Python?

Ans) I used Pandas, NumPy and Matplotlib libraries in Pandas.

THANK YOU