High-Level Design

Investment Analytics for FDI in India from 2001 to 2017

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Abstract

FDI is an important part of growth capital for the country especially in a globalized world. Here we study the FDI trends from 2000 to 2017 period. We look into most and least invested areas and study how the preferences have evolved since 2000. We also study the investment patterns in correlated Sectors.

2 General Description

2.1 Problem Statement

FDI is an important reflection of the economy, and growth of any country in today's interlinked world is connected with other nations as well. So, FDI indicates sectors of the country whose growth is supported by other nations as well. In this project, we study such trends overs the years. The objective of the project is to perform data visualization techniques to understand the insight of the data. This project aims apply matplotlib visualizations and also Tableau to get a visual understanding of the data.

2.1 Tools Used

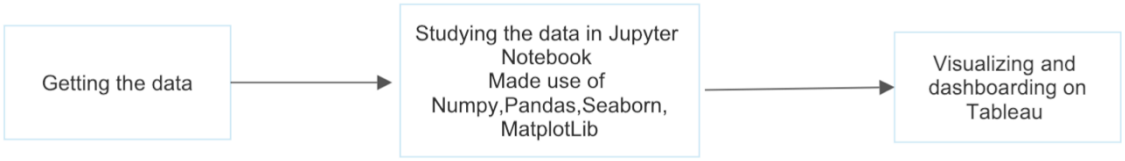
Business intelligence tools mentioned above have been used for the entire project.

3. Design Details

3.1. Process Architecture

This was my opportunity to take to learning Tableau further. As a result, I have decided to use it last, after having studied the data first in Jupyter Notebook environment. Firstly I

obtained the data provided By Ineuron and extracted the data in Jupyter Notebook and made use of pandas for the purpose of exploratory data analysis and also made use of Seaborn, Matplotlib to plot the findings of FDI data which includes correlation between sectors ,top 3 correlated years ,Overall FDI investment, Top 5 sectors in terms of FDI investment



3.2. Some Important details

We first inspect the data on Jupyter notebook environment using Python libraries. We try to generate insights from them. We take correlation and we also observe investment trends for highly correlated sectors.
Thereafter we used the Tableau dashboard.
Then, we uploaded it to Tableau Public and now, for editing any part, we can do it there .

3.3. The KPIs deployed on the dashboard:

We have incorporated 7 charts in our dashboard:

a) Overall FDI from Financial year 2000-2016
b) Top 5 Investment Sectors by FDI
c) Poor performing sector From 200 to 2016
d) FDI overall growth of the best performing Sector from FY 2000-2016(Service Sector)
e) Proportion of FDI
f)Variation of FDI
g)Specific cluster that are present