

High-Level Design

Investment Analytics for FDI in India from 2001 to 2017

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Contents

Document Version Control.....	2
Abstract.....	4
1 General Description	4
2.1 Problem Statement.....	4
2.2 Tools used.....	4
3 Design Details.....	4
3.1 Process Architecture.....	4
3.2 Some important details.....	5
3.3 The KPIs deployed on the dashboard	5

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 inter-linked 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 over 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



NumPy



pandas

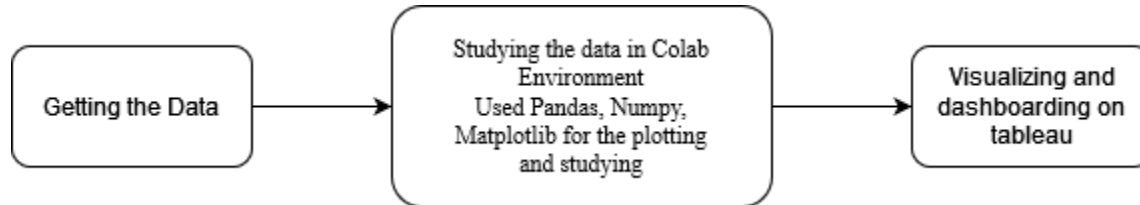


Business intelligence tools mentioned above have been used for the entire project.

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 colab environment.



3.2. Some Important details

We first inspect the data on colab 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 6 charts in our dashboard:

- a) Maximum FDI (shown by proportion)
- b) Minimum FDI
- c) Trend line of FDI for the entire period
- d) Highest growth (for the last part of the study period)
- e) Highest decline (for the last part of the study period)
- f) Variance of FDI investment for each sector.