

# Corporate Impact on the Environment

Shashi Bhushan Singh

MDS202235

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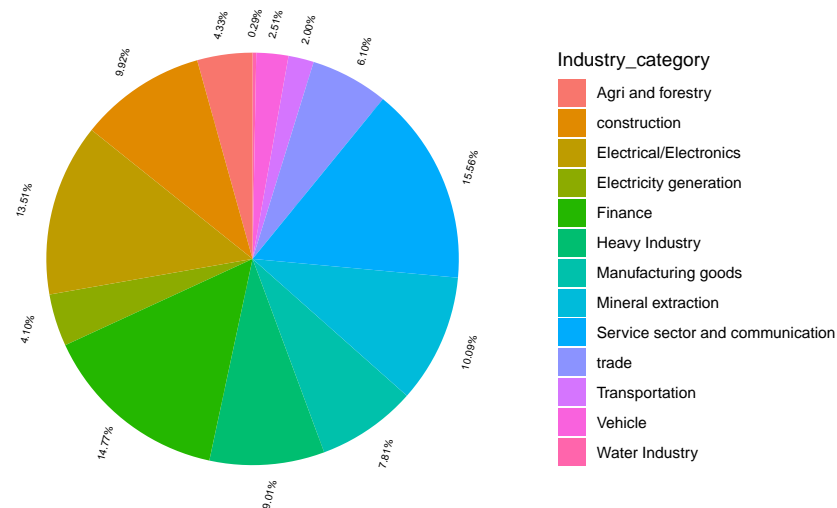
## Introduction:

The Dataset used for this project is from the “Corporate Environmental Impact” . It contain the the data about environmental impact of company to the different factor of environment like water, health etc. . For this project I have used the 2018 data from this dataset . The main aim is to analyze pollution level of each industry and compare there influence on different factor environment.

## Data description:

- The dataset I have choosen has 16 columns and 1754 rows.
- for analysis I have created three column :
  - Industry\_code: Based on International Standard Industrial Classification Revision 3.1 (ISIC)
  - pollution level : contain categorical value according to environment intensity like low for below 10% environment intensity etc.
  - Industry\_category : to broadly define the Industry to which any company belong like finance, electricity generation etc.

Fig-1: % of Industry\_category representation in dataset



Shiny Dashboard: [https://shashis.shinyapps.io/Corporate\\_Impact\\_on\\_Environment/](https://shashis.shinyapps.io/Corporate_Impact_on_Environment/)

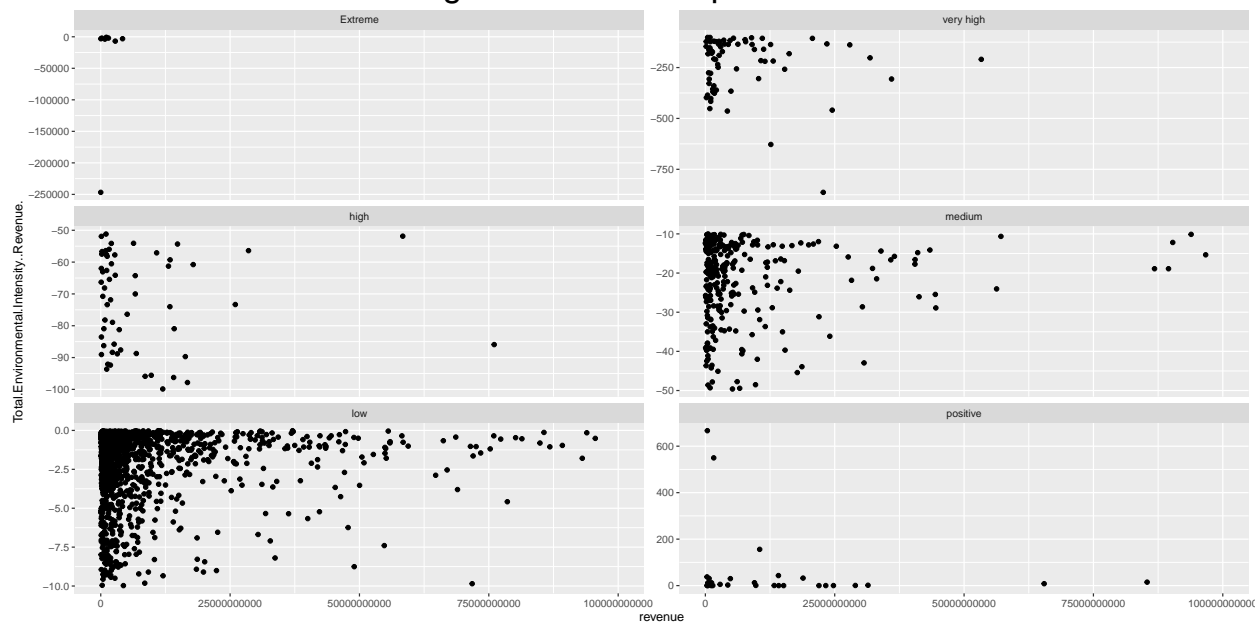
Youtube Link: <https://youtu.be/J00q7GmNqJQ>

## Data Analysis:

The Table below shows the overall environmental intensity of Industry along with effect on different factor of environment in percentage of revenue represented in data.

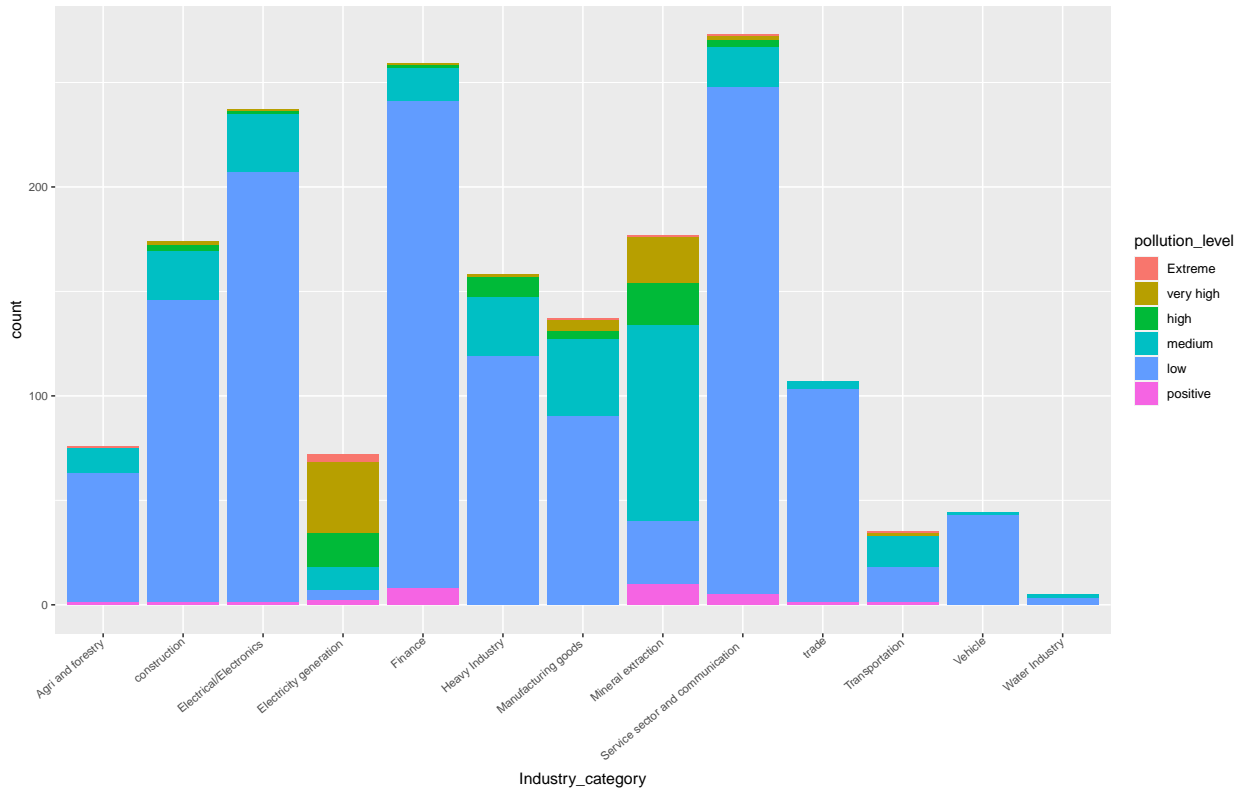
	percentage Environment intensity..revenue
total.Environment_cost	-14.2903531
Working.Capacity	10.3653210
Fish.Production.Capacity	0.0028263
Crop.Production.Capacity	0.1362053
Meat.Production.Capacity	0.0316778
Biodiversity	0.0004838
total_Abiotic.Resources	0.0293806
Water.production.capacity..Drinking.water. . . Irrigation.Water.	4.3704008
Wood.Production.Capacity	0.0012967

Fig-2: Revenue vs pollution level



- From fig-2, most of the industry falls under the low pollution category, but it is low revenue company which have shown higher variance in pollution level from being the extreme polluter to positive one. Whereas most higher revenue company is low or medium polluter.

Fig-3: pollution level of Industry\_category



The Fig. below shows the on average environmental impact of industry falling under different pollution\_level.

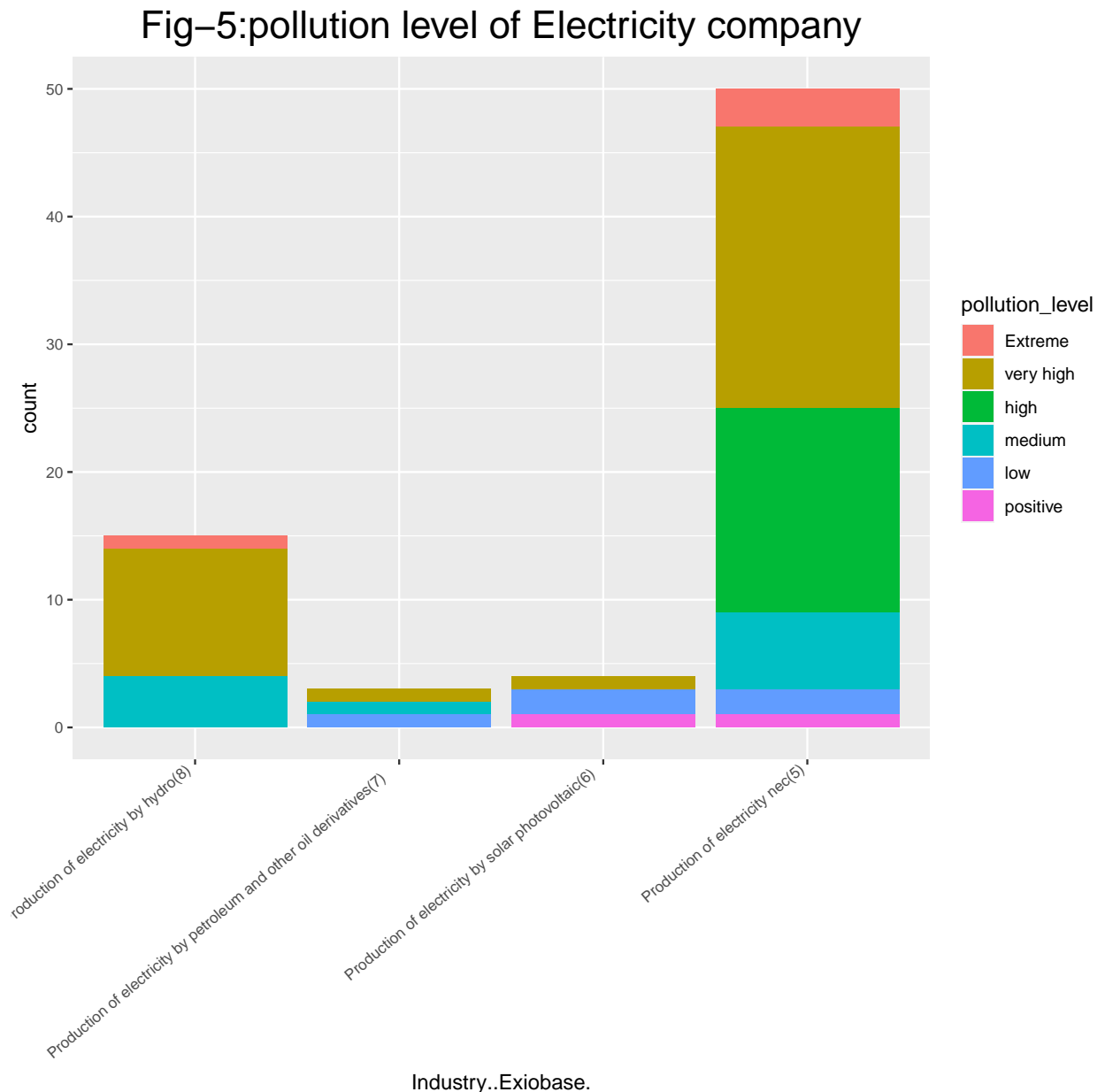
Fig-4: percentage of environment cost to revenue



Few takeaway from fig-3 and fig-4:

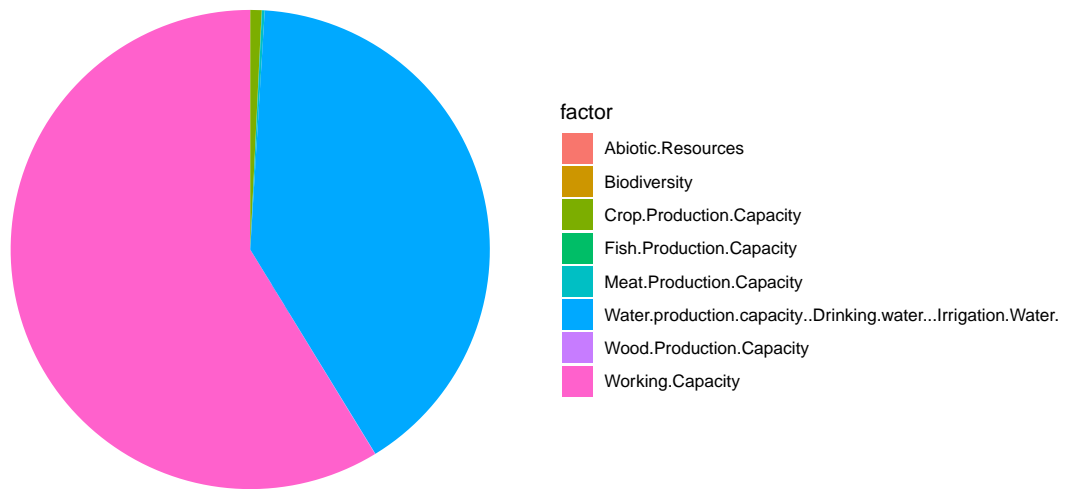
- Except trade most of the industry have shown high variability in pollution level
- on average environmental impact of extreme polluting company is highest in case of mining industry.
- from fig-2 Electricity generation company shows quit high percentage of company belong to very high polluting category compared to other industry.

**Electrical generation company:**



- the hydro electricity production Industry shows quit surprising result as we consider it as one of the most environmental friendly industry but data shows that most of them belong to medium and high pollution level and even present in extreme pollution category.

Fig-6: Factor of environment affected by Electricity generation company



- Electricity company have higher impact on working capacity and then on water.