



# GDP ANALYSIS

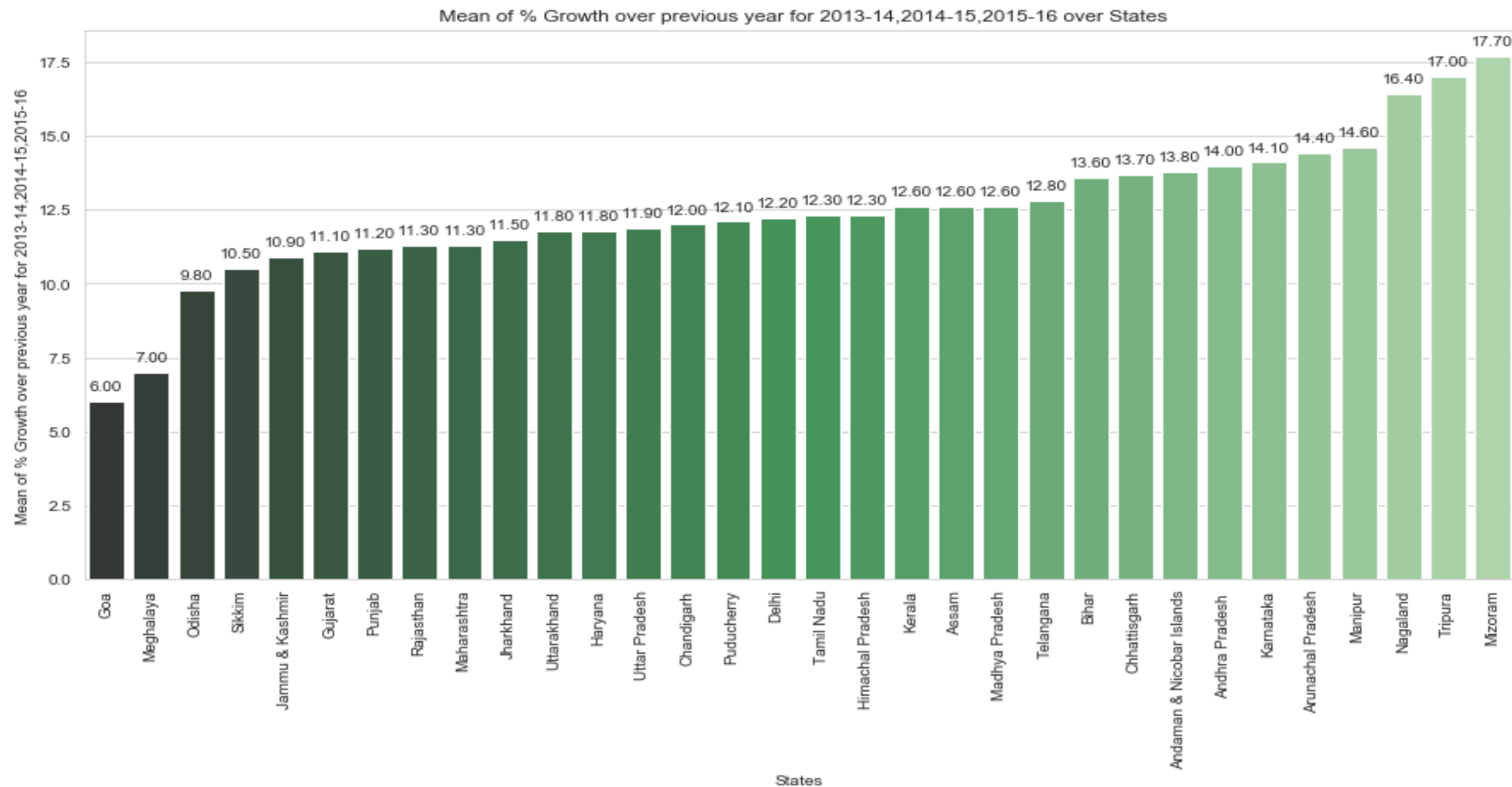
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# PREREQUISITES AND ASSUMPTIONS

- `pip install squarify`
- Ignored the records those don't have data at all, like West Bengal.

# MEAN OF % GROWTH OVER PREVIOUS YEAR FOR 2013-14,2014-15,2015-16



# FINDINGS

**As per mean of % Growth over previous year for 2013-14,2014-15,2015-16, which states have been growing consistently fast, and which ones have been struggling?**

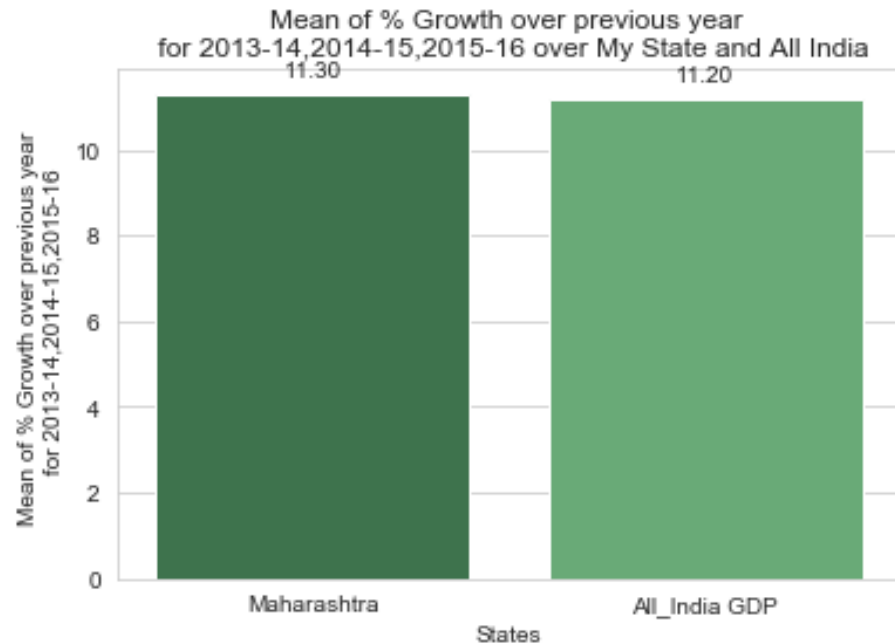
- **Growing consistently fast**

1. Mizoram
2. Tripura
3. Nagaland

- **Ones have been struggling**

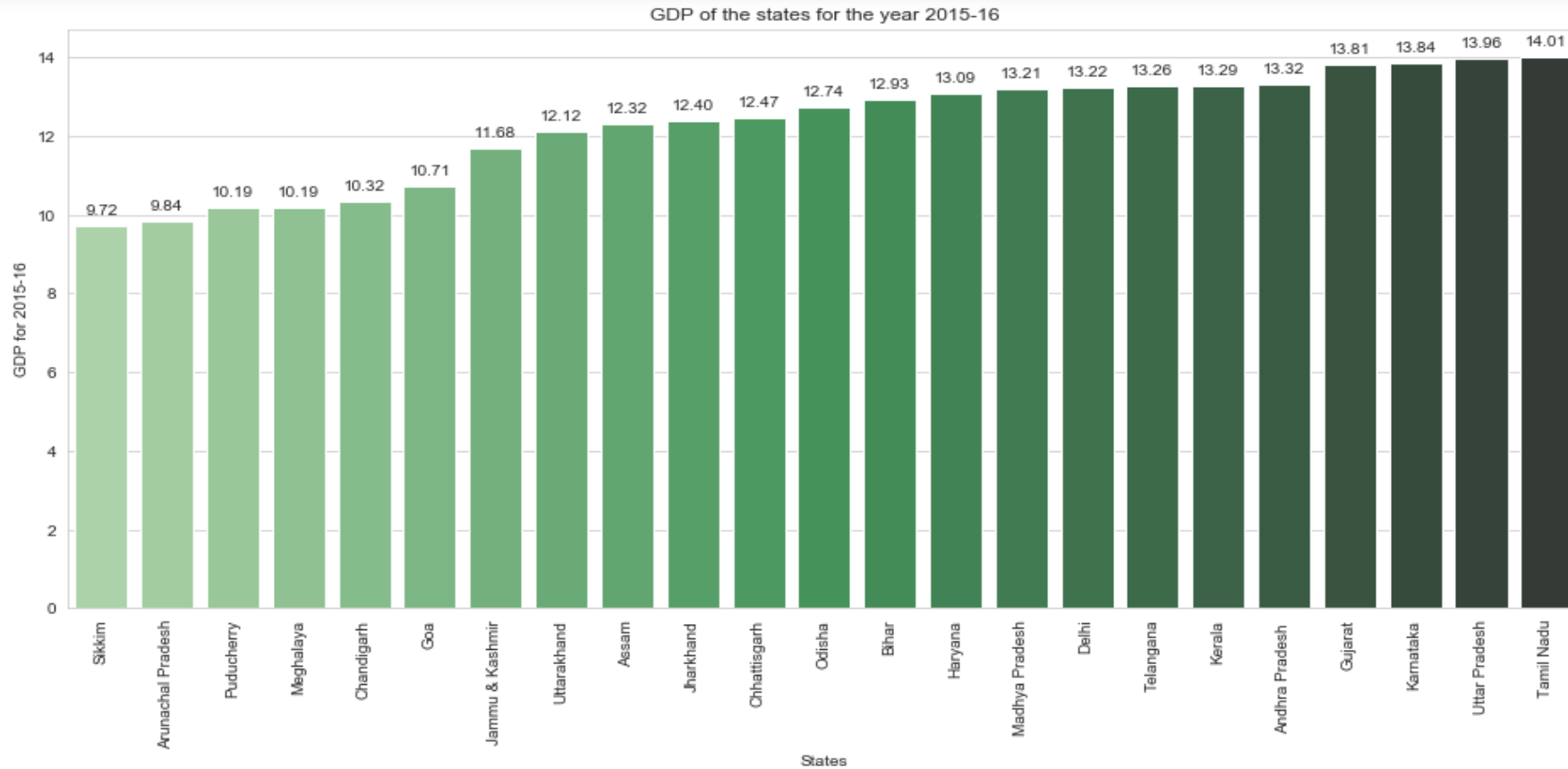
1. Goa
2. Meghalaya
3. Odisha

# MEAN OF % GROWTH OVER PREVIOUS YEAR FOR 2013-14,2014-15,2015-16 OVER MY STATE AND ALL INDIA



**My state Maharashtra is showing slight better average % Growth over previous year over three years than All India. Difference is not much significant**

# GDP OF THE STATES FOR THE YEAR 2015-16



# FINDING

We have discarded the states whose data is not present, so from given data we plotted above graph. From Above graph its evident that

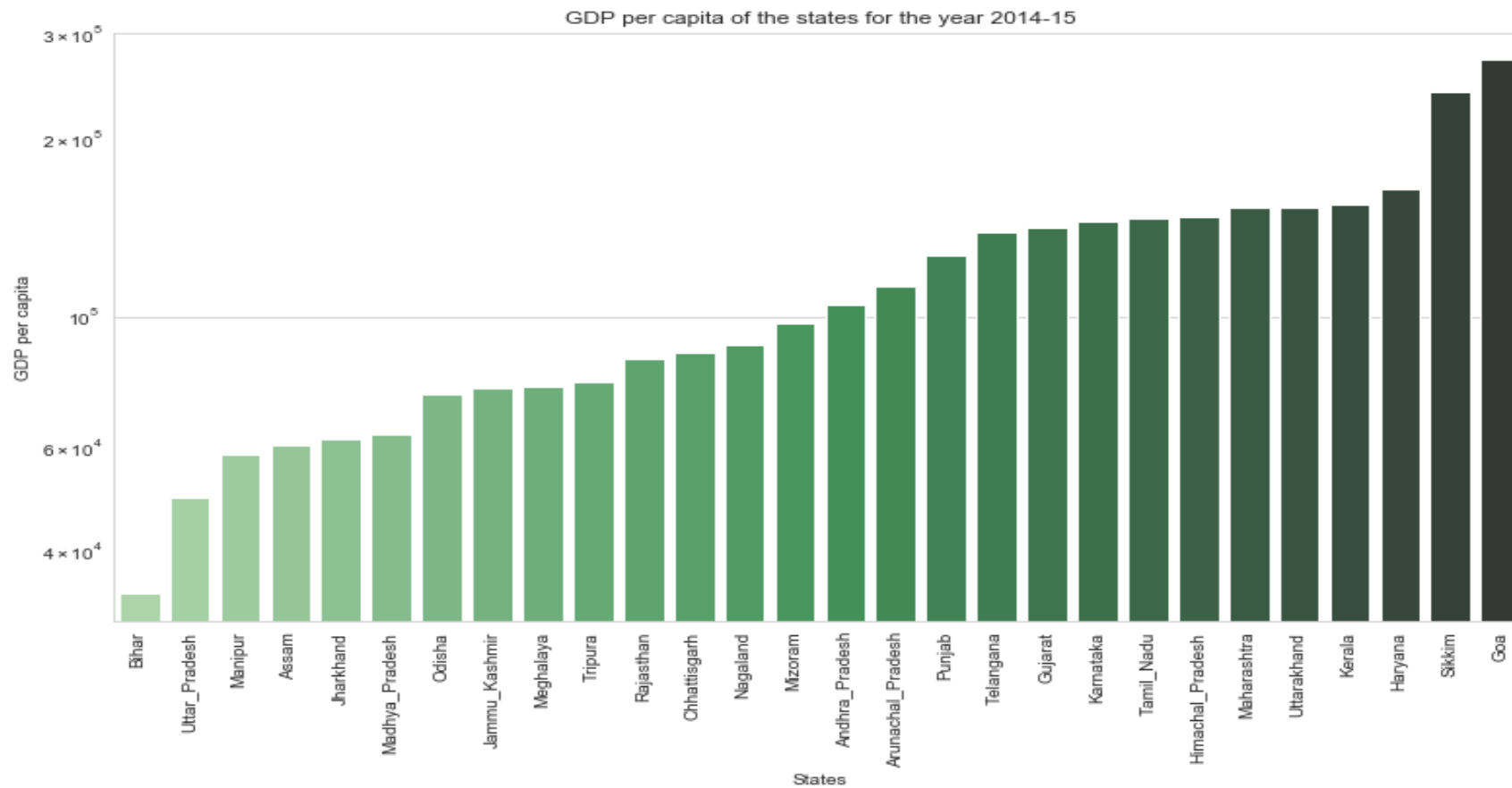
- **Top 5 states in terms of GDP**

1. Tamil Nadu
2. Uttar Pradesh
3. Karnataka
4. Gujrat
5. Andhra Pradesh

- **Bottom 5 states in terms of GDP**

1. Sikkim
2. Arunachal Pradesh
3. Pudduchery(UT)
4. Meghalaya
5. Chandigarh

# GDP PER CAPITA OF THE STATES FOR THE YEAR 2014-15





# FINDING

- **Top 5 states based on the GDP per capita**

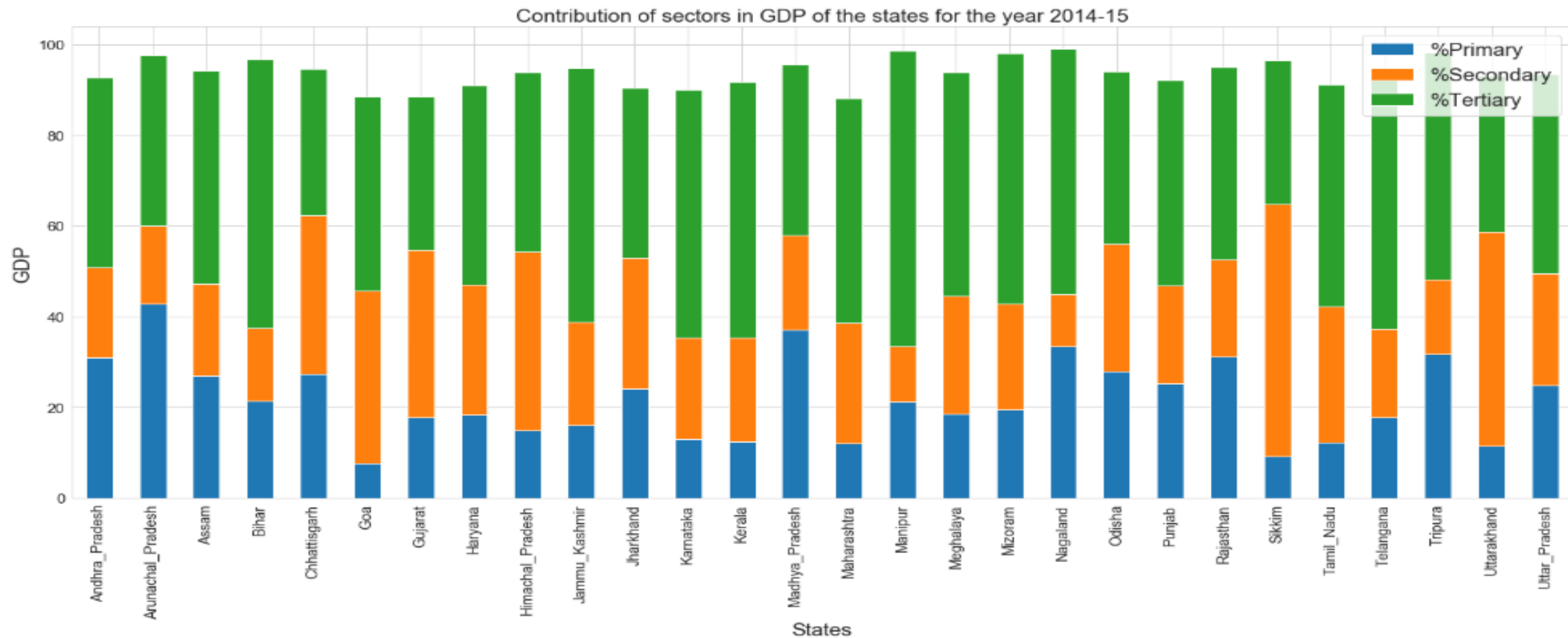
1. Goa
2. Sikkim
3. Haryana
4. Kerla
5. Uttarakhand

- **Bottom 5 states based on the GDP per capita**

1. Bihar
2. Uttar Pradesh
3. Manipur
4. Assam
5. Madhya Pradesh

**From given data max to min GDP ratio is 8.004741709371503 , where state with max GDP is Goa and state with min GDP is Bihar**

# CONTRIBUTION OF SECTORS IN GDP OF THE STATES FOR THE YEAR 2014-15



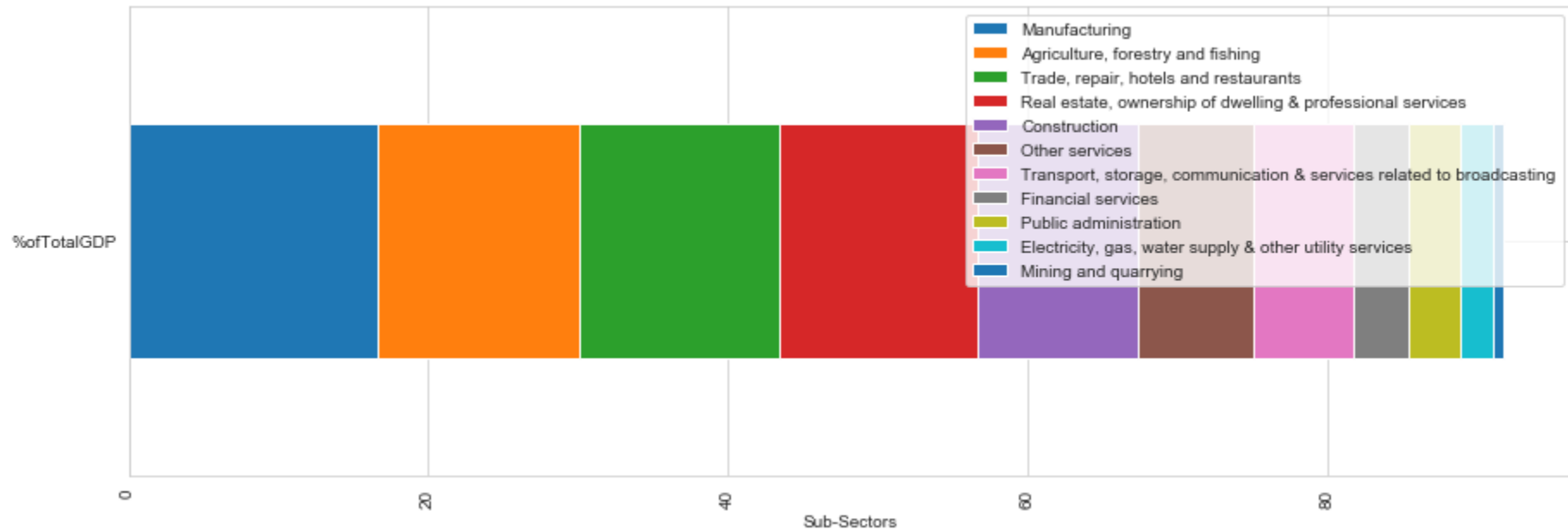
# FINDING

- Overall tertiary sector is performing good

# CATEGORIZATION

Categorized the states into four groups based on the GDP per capita (C1, C2, C3, C4, where C1 would have the highest per capita GDP and C4, the lowest). The quantile values are (0.20, 0.5, 0.85, 1), i.e., the states lying between the 85th and the 100th percentile are in C1; those between the 50th and the 85th percentiles are in C2, and so on.

# CATEGORY C1 HAVING STATES GOA , HARYANA , KERALA , SIKKIM , UTTARAKHAND

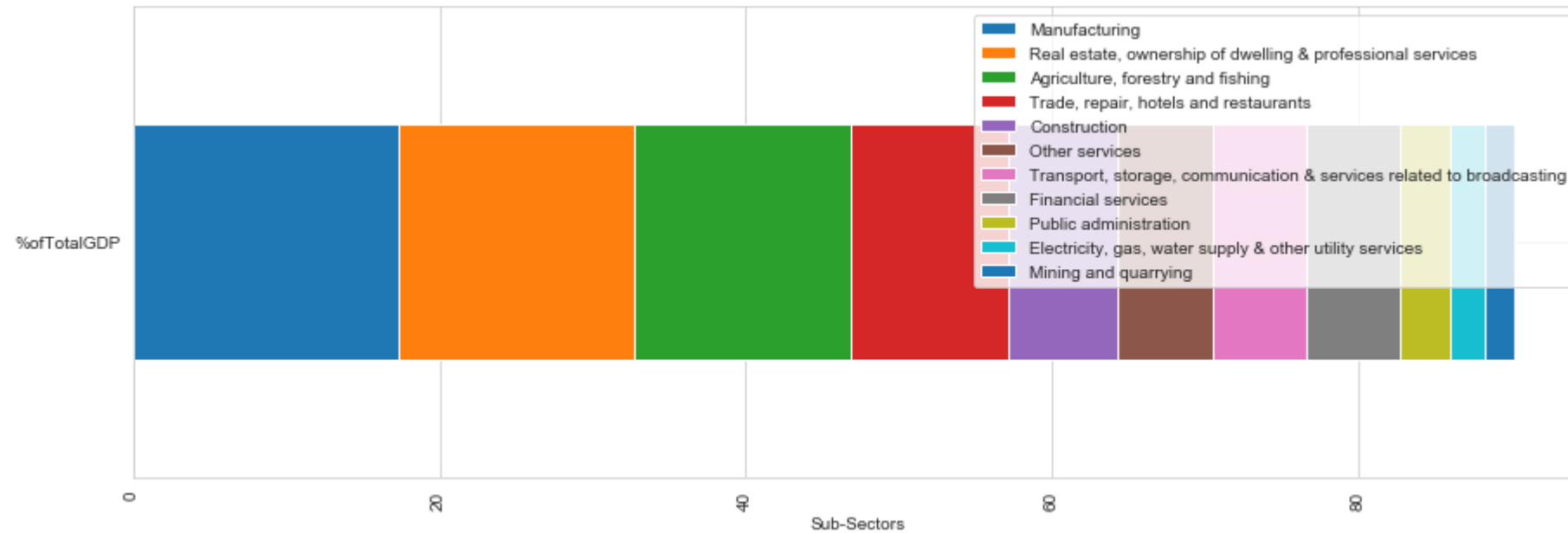


## CATEGORY C1 - FINDING

- **Subcategories contributing 80% of GDP for CI having states Goa , Haryana , Kerala , Sikkim , Uttarakhand**
  1. Manufacturing
  2. Agriculture, forestry and fishing
  3. Trade, repair, hotels and restaurants
  4. Real estate, ownership of dwelling & professional services
  5. Construction
  6. Other Services

## CATEGORY C2

- States :Andhra\_Pradesh ,Arunachal\_Pradesh , Gujarat , Himachal\_Pradesh , Karnataka , Maharashtra , Punjab , Tamil\_Nadu ,Telangana



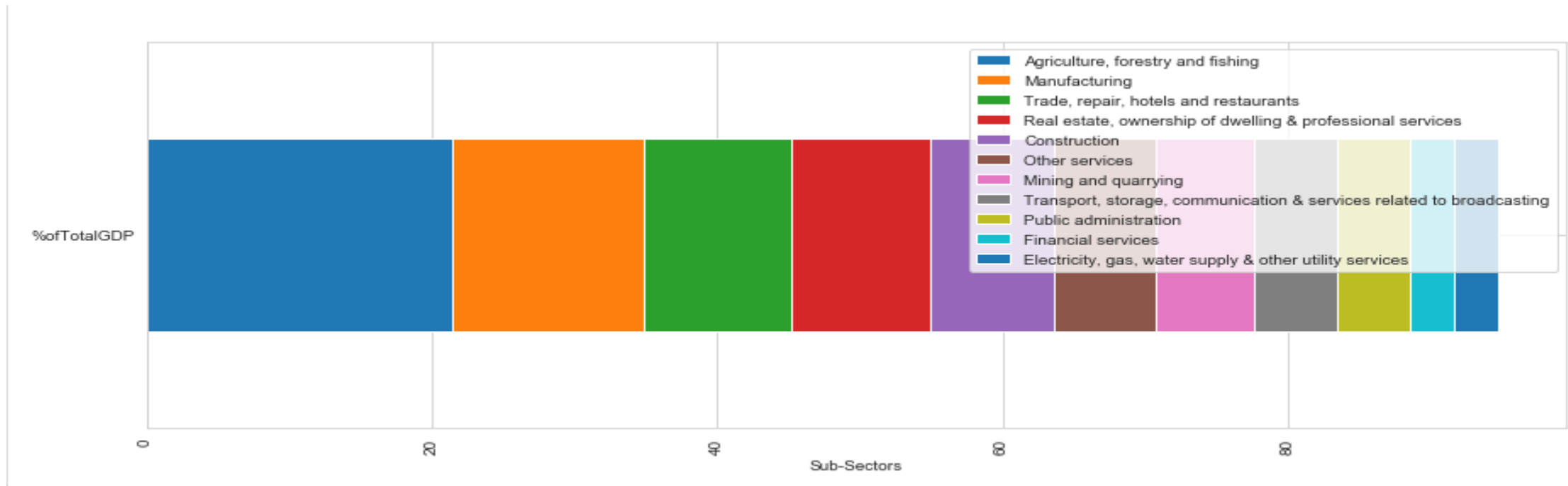
## CATEGORY C2 - FINDING

- **Subcategories contributing 80% of GDP for C2 having states Andhra\_Pradesh ,Arunachal\_Pradesh , Gujarat , Himachal\_Pradesh , Karnataka , Maharashtra , Punjab ,Tamil\_Nadu ,Telangana**
  1. Manufacturing
  2. Real estate, ownership of dwelling & professional services
  3. Agriculture, forestry and fishing
  4. Trade, repair, hotels and restaurants
  5. Construction
  6. Other Services
  7. Transport, storage, communication & services related to broadcasting



# CATEGORY C3

States : Chhattisgarh , Jammu\_Kashmir , Meghalaya , Mizoram , Nagaland , Odisha , Rajasthan , Tripura

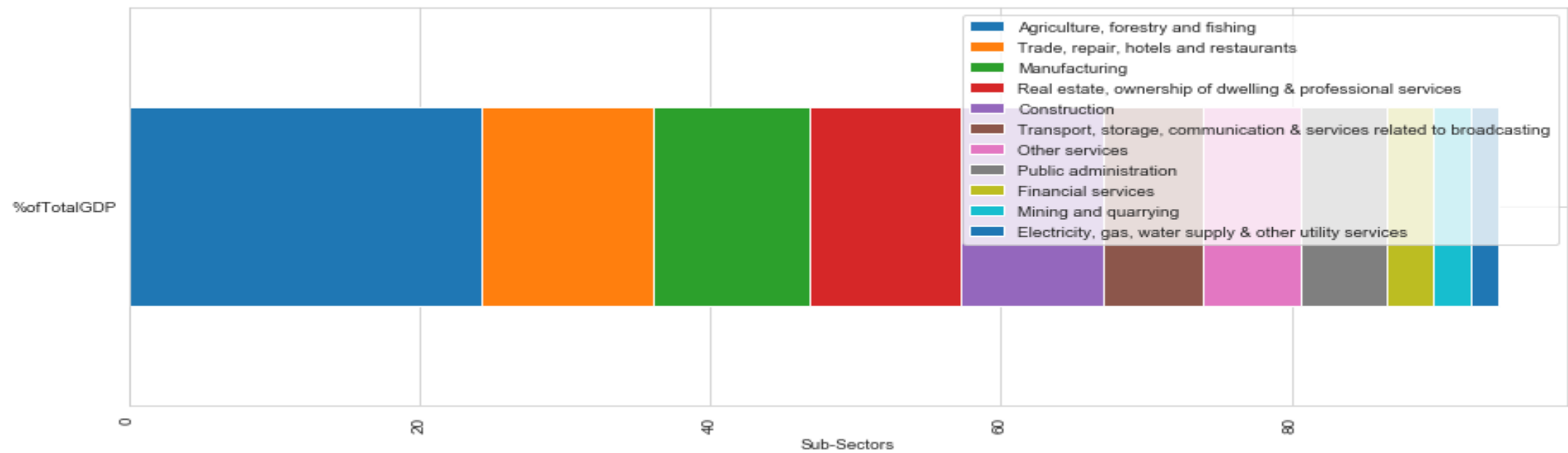


## FINDING C3

- **Subcategories contributing 80% of GDP for C3 having states Chhattisgarh , Jammu\_Kashmir , Meghalaya , Mizoram , Nagaland , Odisha , Rajasthan , Tripura**
  - 1. Agriculture, forestry and fishing
  - 2. Manufacturing
  - 3. Trade, repair, hotels and restaurants
  - 4. Real estate, ownership of dwelling & professional services
  - 5. Construction
  - 6. Other Services
  - 7. Mining and quarrying

# CATEGORY C4

States : Assam , Bihar , Jharkhand , Madhya\_Pradesh , Manipur , Uttar\_Pradesh



## FINDING C4

- **Subcategories contributing 80% of GDP for C4 having states Assam , Bihar , Jharkhand , Madhya\_Pradesh , Manipur , Uttar\_Pradesh**
  1. Agriculture, forestry and fishing
  2. Trade, repair, hotels and restaurants
  3. Manufacturing
  4. Real estate, ownership of dwelling & professional services
  5. Construction
  6. Transport, storage, communication & services related to broadcasting
  7. Other Services

# FINDINGS

- **How does the GDP distribution of the top states (CI) differ from the others?**

In terms of sub sectors **Trade, repair, hotels and restaurants** is the most contributing sub sector in CI by contributing more than 13%. No doubts CI states have good tourism and which making it profitable in **Trade, repair, hotels and restaurants**. Other than this in all categories top 5 subsectors are almost common.

- **Which sub-sectors seem to be correlated with high GDP?**

Agriculture and Manufacturing are most correlated with GDP as these are the most contributing sub-sectors

# FINDINGS

- **Which sub-sectors to focus on?**

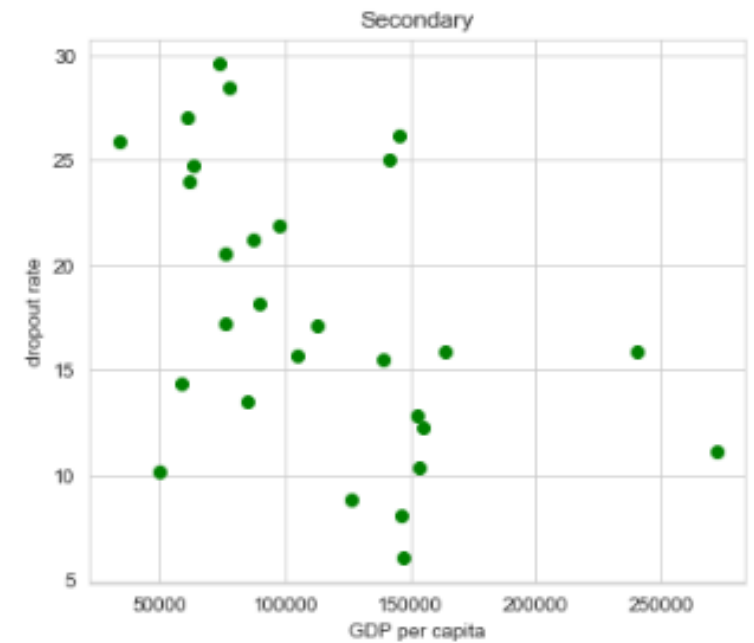
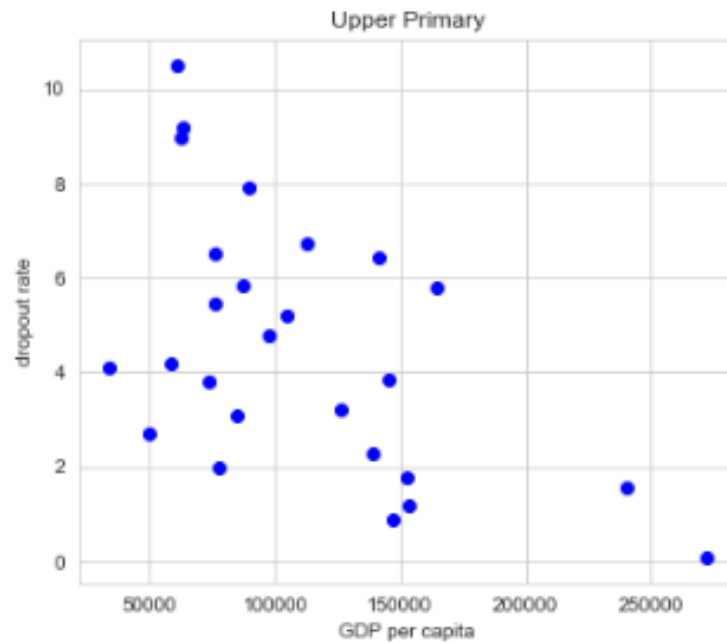
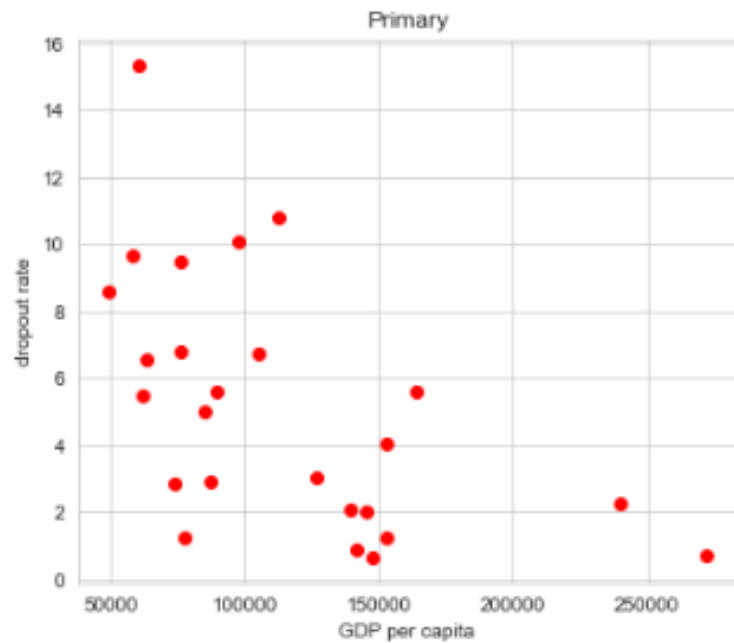
Though there are many sub-sectors are lagging but focus on sub-sectors like utility services can not contribute much as those are govt controlled as those are daily needs, so excpet those following can be focus sub-sectors

1. Mining and Quarrying
2. Financial Services

- **Recommendations for each category to improve the per capita GDP.**

1. States must focus on tourism, agriculture and manufacturing to boost economy
2. Lagging subsectors need long period plans to bring them in main stream

# GDP VS EDUCATION DROPOUT RATES



# FINDING

- All plots gives general idea that higher the per capita **GDP** lower the drop out rate
- For Primary education the clear correlation shows higher the per capita **GDP** lower the drop out rate
- For Upper Primary education the scatter plot clear correlation shows higher the per capita **GDP** lower the drop out rate, One major thing to notice is
- For Secondary education the scatter plot does not show clear correlation but we can say most states fall over median where per capita **GDP** is average and the drop out rate high