

Guesstimate

**What is the total number of internships
(including apprenticeships) that get
offered in a year in India?**

In This problem statement, there are 2 situations, because this is the supply and demand problem.

1. We can solve the problem based on a population perspective.
2. We can solve the problem from the company's perspective.

Here we solve the problem to consider the situation 1

We solve the problem based on population.

Number of Internships fulfilled depends on:

- Number of people who are actually eligible for internship.
- Total number of internship openings.
- Total number of people looking for an internship.

Assumptions:

- The total population of India is 1.390 Billion.
- Number of people who are actually eligible for an internship are divided into 3 categories :- 10th & 12th students, Undergraduate, graduate & postgraduate students and Diploma & certificate students as per our requirements.
- We also know that India has more than 50% population below the age of 25 and 65% population below the age of 35.
- Let's say that one of the basic requirements to get an internship is to have some educational background.

1. **Segment 1:** Students Completing 10th and 12th grade.

2. **Segment 2:** Students in diploma, Undergraduate, graduate, doctorate.

3. **Segment 3:** In this we consider Diploma and certificate students, Students mostly in graduate and doctorate and many students already with a job but changing their job(profile) in view of better opportunity as it happens in the real world.

Let's make an assumption that 30% of the population are aged between 18 to 35 years.

$$\begin{aligned}\text{population between age 18 to 35 years} &= (\text{total population}) * (30\%) \\ &= 1,390,000,000 * 0.3 \\ &= 417,000,000\end{aligned}$$

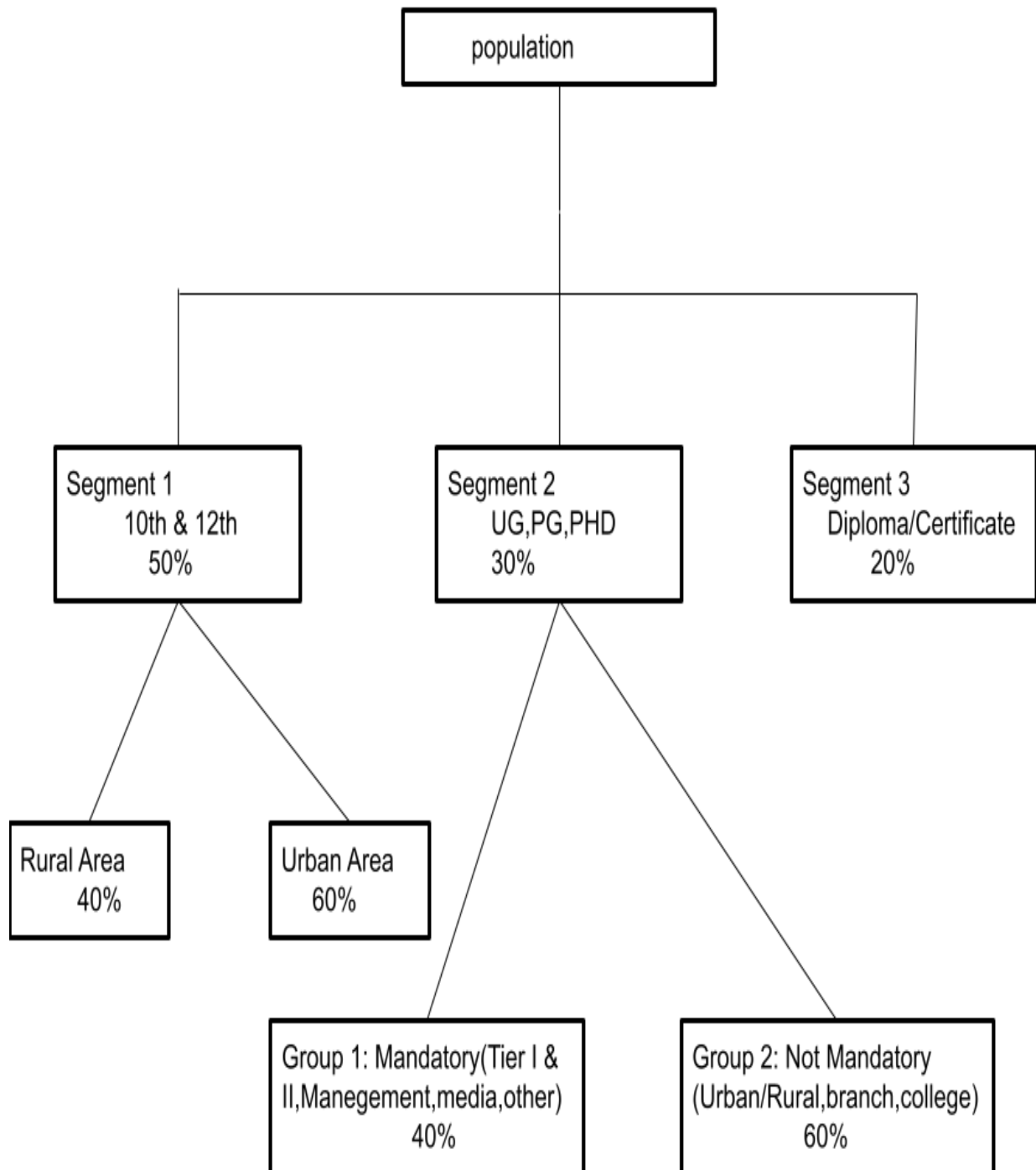
So for this analysis the new population is 417 million.

We know that India's literacy rate is 74%.

Educated population between age 18 to 35 years = (population between age 18 to 35 years) * (74%)

$$= 417,000,000 * 0.74$$

$$= 308,580,000$$



Segment 1: We consider 10th and 12th pass out students because nowadays many companies are offering School students for internship in summer vacations and students also get interested.

Because Internships can help you figure out what you are good at, what your areas of weakness might be, and what you really enjoy doing. In addition, it gives you real-world knowledge and experience of specific jobs, which is valuable. All this will only help you in making the right career choices going forward.

But Rural area students are not aware about internship programs in India, so We divide 10th and 12th students into 2 groups.

1. Rural area
2. Urban area

50% of the population belong between the 15-18 age group. We assume that some students do not get pass in 10th And 12th, many of them can drop out from there school, many of them not interested in internship, some of them have interest but they are not eligible for internship and rural area students are not aware.

So we consider that in the 10th and 12th students group only 2% students get offered.

$$\begin{aligned}\text{Segment 1 population} &= 308,580,000 * 0.50 \\ &= 154,290,000\end{aligned}$$

$$\begin{aligned}60\% \text{ population completed his/her course} &= 154,290,000 * 0.6 \\ &= 92,574,000\end{aligned}$$

$$\begin{aligned}\text{Total population (offered internship) of segment 1} &= 92,574,000 * 0.02 \\ &= 1,851,480\end{aligned}$$

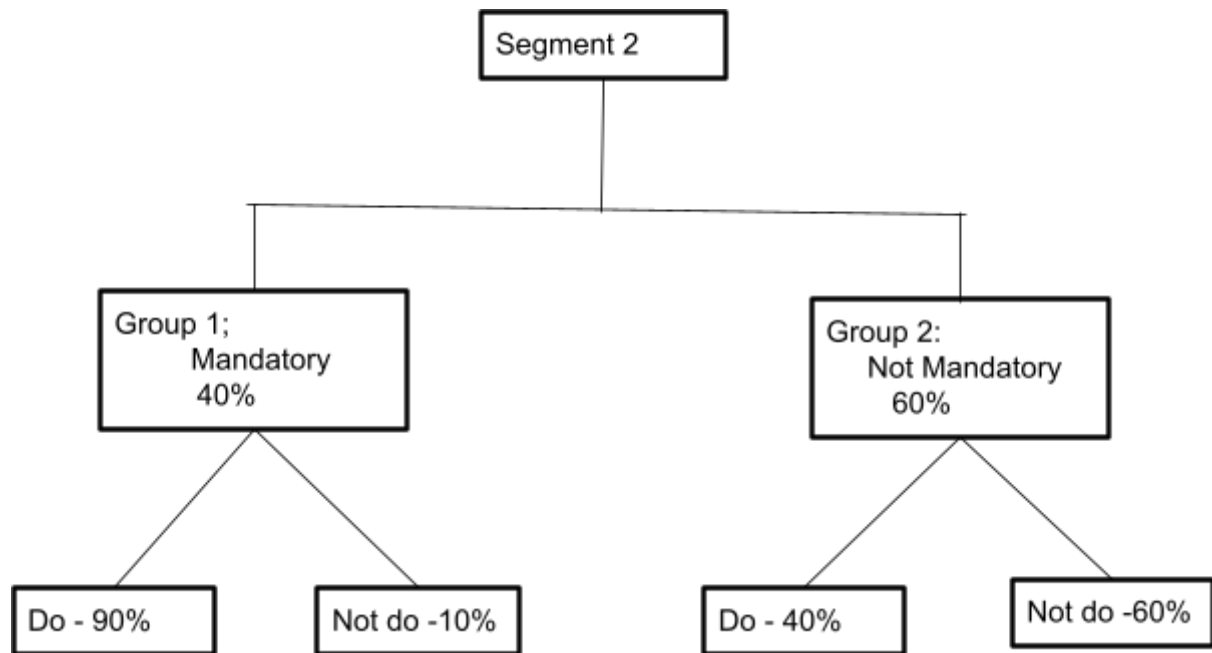
Segment 2: let's assume that 30% population, belong to this group, most of the students enroll into Diploma Undergraduate, Graduate, Post Graduate, Doctorate complete their education.

Many students do not continue their study after 12th, some of them dropout of college and some of them complete their education but start their own business. 20% of students start their own business. so let's consider 70% of students are pass out of colleges and universities each year's colleges and universities.

In this new population we segregate into 2 groups based on the education system. like where the internship is mandatory and internship not mandatory.

Group 1: Tier1 college, tier2 college, IT College, doctorate and others (media, fashion, etc) where an internship is mandatory and many students from their 1st and 2nd year they also do internship so we can say that 90% of students will get an offer for an internship. so assume that 40% of the population belong to mandatory internships.

Group 2 : In many college internships are not mandatory based on branch, college, and area (Rural & Urban) but students will do it by their own interest. and many students from their 1st and 2nd year they also do internships. so we can say that 40% of students will get an offer for an internship. So assume that 60% of the population belongs to not mandatory.



$$\begin{aligned}\text{Segment 2 populations} &= 308,580,000 * 0.30 \\ &= 92,574,000\end{aligned}$$

$$\begin{aligned}\text{70\% populations are completed his/her course} &= 92,574,000 * 0.7 \\ &= 64,801,800\end{aligned}$$

$$\begin{aligned}\text{Group 1 population} &= 64,801,800 * 0.4 \\ &= 25,920,720\end{aligned}$$

$$\begin{aligned}\text{90\% students eligible for internship (offered)} &= 25,920,720 * 0.9 \\ &= 23,328,648\end{aligned}$$

$$\begin{aligned}\text{Group 2 population} &= 92,574,000 * 0.6 \\ &= 55,544,400\end{aligned}$$

$$\begin{aligned}\text{40\% students eligible for internship (offered)} &= 55,544,400 * 0.4 \\ &= 22,217,760\end{aligned}$$

$$\begin{aligned}\text{Total population (offered internship) of segment 2} &= 23,328,648 + 22,217,760 \\ &= 45,546,408\end{aligned}$$

Segment 3: Mostly Students in graduate and doctorate and many students already with a job but changing their job(profile) in view of better opportunity as it happens in the real world. so they will join some program there and will upgrad their skills (data science, data analysis, digital market, etc) and get Diploma and certificate.

Let's assume that 20% student enroll such kind of Diploma and certificate
And suppose only 80% of students can successfully complete the program. And 60% of students get internships.

$$\begin{aligned}\text{Segment 3 population} &= 308,580,000 \times 0.2 \\ &= 61,716,000\end{aligned}$$

$$\begin{aligned}80\% \text{ populations are completed his/her course} &= 61,716,000 \times 0.8 \\ &= 49,372,800\end{aligned}$$

$$\begin{aligned}\text{Total population (offered internship) of segment 3} &= 49,372,800 \times 0.6 \\ &= 19,749,120\end{aligned}$$

Now that we have figures from each of the 3 segments, we just need to add them so as to get the final figure.

Total offered internship

Different Segments	No. of Offered Internship
Segment 1	1,857,480
Segment 2	45,546,408
Segment 3	19,749,120
Total	67,153,008

Many students may have 2 or 3 offers from companies. We can say that 2% of students get 2 or 3 offers.

According to this guesstimate we conclude that each year close to 67,153,008 or about 7 crore (Approximate) people are offered for an internship in India.