### PHASE 3 – MARGINAL WORKERS IN TAMILNADU

# • <u>INTRODUCTION:</u>

- A Marginal worker is the one who engaged in only economically productive work for less than 183 days in a year. In India 8.7% of workers are marginal workers.
- ➤ Percentage of marginal workers will reflect a less developing economy and poverty.
- Most of the marginal workers are the landless agricultural labours in rural areas.

#### • GIVEN DATA SET:

Table Code	State Cod	de District (	Co Area Nam Total/ R	ur Age group	Worked fo	Worked fo	Worked fo	Worked fo V	Vorked fo	Worked fo I	ndustrial (I	ndustrial (1	ndustrial (I	ndustrial (	Industrial (	Industrial (I	ndustrial (	ndustrial (	ndustrial (1	ndustrial (1	Industrial (In
B0806SC	`33	,000	State - TAI Total	Total	1200828	589003	611825	221386	99368	122018	64235	34632	29603	907752	404844	502908	29410	16268	13142	2853	1862
B0806SC	`33	'000	State - TAI Total	`5-14	27791	14125	13666	2447	1247	1200	1710	825	885	6398	3130	3268	190	107	83	9	9
B0806SC	`33	'000	State - TAI Total	15-34	514340	259560	254780	92423	43892	48531	24863	12711	12152	345420	152968	192452	9430	5443	3987	1174	839
B0806SC	`33	,000	State - TAI Total	35-59	542581	251957	290624	99202	40691	58511	29692	15927	13765	450052	192771	257281	15744	8230	7514	1436	860
B0806SC	`33	`000	State - TAI Total	60+	115103	62833	52270	27165	13465	13700	7930	5151	2779	105325	55730	49595	4028	2470	1558	234	154
B0806SC	`33	`000	State - TAI Total	Age not sta	1013	528	485	149	73	76	40	18	22	557	245	312	18	18	0	0	0
B0806SC	`33	`000	State - TAI Rural	Total	966645	459738	506907	174443	73663	100780	59637	32189	27448	824698	364131	460567	19758	11033	8725	1728	1191
B0806SC	`33	'000	State - TAI Rural	`5-14	17239	8713	8526	1977	985	992	1443	684	759	6005	2922	3083	144	80	64	6	6
B0806SC	`33	'000	State - TAI Rural	15-34	406847	198575	208272	71974	31917	40057	22933	11766	11167	316885	138622	178263	6687	3909	2778	732	543
B0806SC	`33	'000	State - TAI Rural	35-59	444800	199573	245227	77922	29808	48114	27799	14887	12912	406147	172178	233969	10307	5468	4839	882	567
B0806SC	`33	'000	State - TAI Rural	60+	97011	52498	44513	22446	10902	11544	7425	4835	2590	95151	50192	44959	2608	1564	1044	108	75
B0806SC	`33	'000	State - TAI Rural	Age not sta	748	379	369	124	51	73	37	17	20	510	217	293	12	12	0	0	0
B0806SC	`33	'000	State - TAI Urban	Total	234183	129265	104918	46943	25705	21238	4598	2443	2155	83054	40713	42341	9652	5235	4417	1125	671
B0806SC	`33	'000	State - TAI Urban	`5-14	10552	5412	5140	470	262	208	267	141	126	393	208	185	46	27	19	3	3
B0806SC	`33	,000	State - TAI Urban	15-34	107493	60985	46508	20449	11975	8474	1930	945	985	28535	14346	14189	2743	1534	1209	442	296
B0806SC	`33	`000	State - TAI Urban	35-59	97781	52384	45397	21280	10883	10397	1893	1040	853	43905	20593	23312	5437	2762	2675	554	293
B0806SC	`33	'000	State - TAI Urban	60+	18092	10335	7757	4719	2563	2156	505	316	189	10174	5538	4636	1420	906	514	126	79
B0806SC	`33	`000	State - TAI Urban	Age not sta	265	149	116	25	22	3	3	1	2	47	28	19	6	6	0	0	0
B0806SC	`33	`602	District - T Total	Total	74448	39295	35153	15866	8004	7862	3066	1663	1403	42579	20345	22234	1519	1025	494	63	47

### • NECESSARY STEPS TO BE FOLLOWED:

#### 1.Import Libraries:

Start by importing the necessary libraries. Load your dataset into the Pandasdata frame. And then display the output.

#### PROGRAM:

```
# importing pandas module for data frame
importpandas as pd

# loading dataset and storing in train variable
train=pd.read_csv('Marginal_workers.csv')

# display top 5 data
train.head()
```

#### **OUTPUT:**

Number of Workers	Total Output	Marginal Output				
1	2	is .				
2	5	3				
3	9	4				
4	12	3				
5	14	2				
6	15	1				
7	15	0				
8	14	-1				
9	13	-1				

## > Creating a Sample Marginal Workers Dataset

```
data = { 'Name': ['Alice', 'Bob', 'Charlie', 'David', 'Eve'],

'Age': [25, 30, 35, 40, 45],

'Gender': ['Female', 'Male', 'Male', 'Female'],

'Occupation': ['Clerk', 'Driver', 'Farmer', 'Shopkeeper', 'Freelancer'],

'Hours per week': [15, 10, 20, 8, 12],
```

'Income': [1000, 800, 1200, 650, 950] }

df = pd.DataFrame(data)

# > Basic Data Manipulation

# 1. Filtering Workers Who Work Less Than a Specified Number of Hours

threshold\_hours = 15
marginal\_workers = df[df['Hours\_per\_week'] < threshold\_hours]
print(marginal\_workers)

## 2. Finding Average Income of Marginal Workers

avg\_income\_marginal = marginal\_workers['Income'].mean() print(f"Average
income of marginal workers: \${avg\_income\_marginal}")

# 3. Finding the Most Common Occupation Among Marginal Workers

common\_occupation = marginal\_workers['Occupation'].mode().iloc[0]
print(f"The most common occupation among marginal workers is:
{common\_occupation}")

# 4. Grouping Marginal Workers by Occupation and Finding the Average Income

grouped = marginal\_workers.groupby('Occupation').mean()
print(grouped['Income'])

**5.Exporting Data** If you want to export the filtered data to a CSV file:

marginal workers.to csv('marginal workers.csv', index=False)