ASSESSMENT OF MARGINAL WORKERS IN TAMILNADU-A SOCIOECONOMIC ANALYSIS

Phase 4: Perform the demographic analysis and create visualizations. Calculate the distribution of marginal workers based on age, industrial category, and sex using data aggregation and manipulation. Create visualizations using data visualization libraries (e.g., Matplotlib, Seaborn).

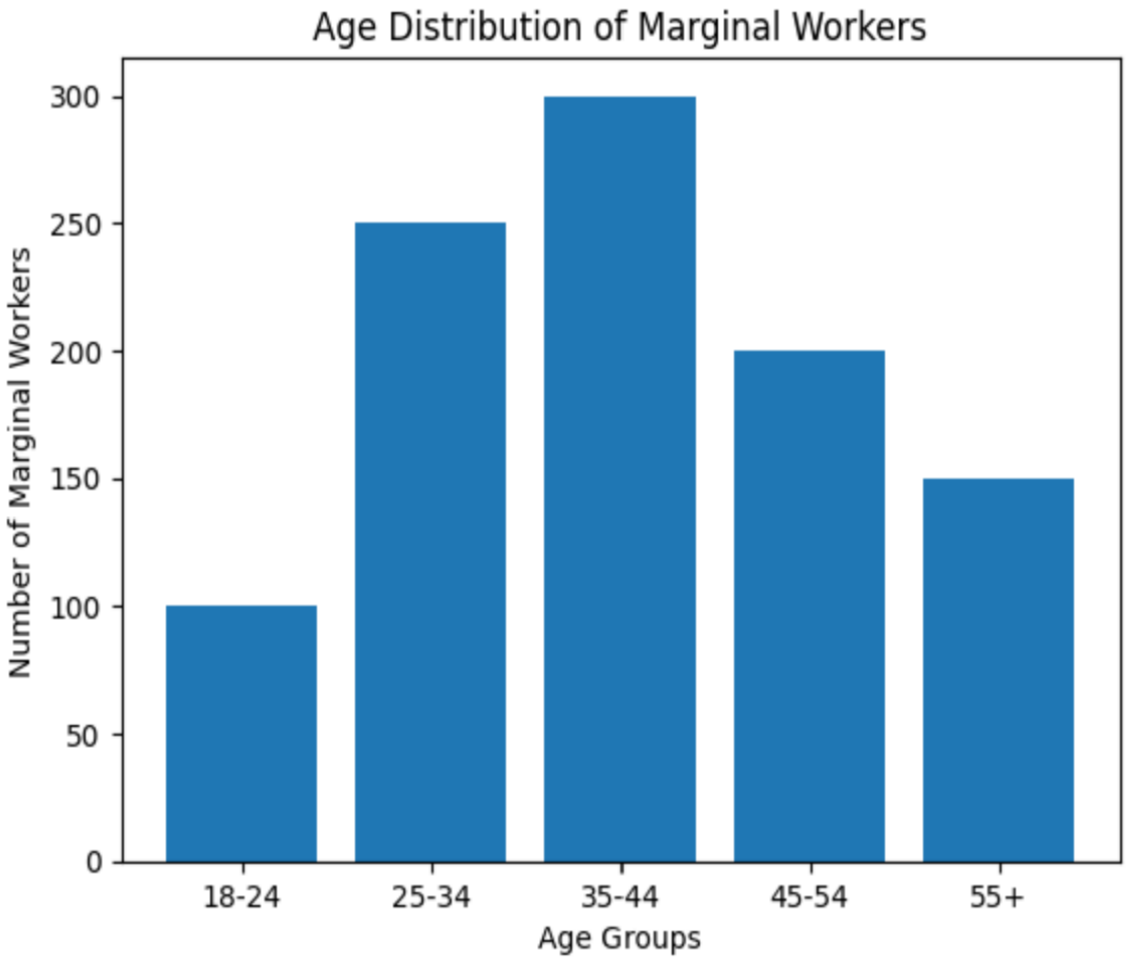
Dataset Link:https://tn.data.gov.in/resource/marginal-workers-classified-age-industrial-category-and-sex-scheduled-caste-2011-tamil

- **Step1**:Import necessary libraries. Load your dataset replace your_dataset.csv with your actual dataset file

```
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
# Replace 'your_dataset.csv' with the actual file path or URL of your dataset
data = pd.read_csv('/content/DDW_B06SC_3300_State_TAMIL_NADU-2011.csv')

plt.figure(figsize=(12, 6))
plt.title('Distribution of Marginal Workers by Age')
plt.xlabel('Age')
plt.ylabel('Count of Marginal Workers')
plt.xticks(rotation=45)
plt.show()
```

➢ **Step 2:** Calculate the distribution of marginal workers based on age.

```
import matplotlib.pyplot as plt

# Sample data (replace with your aggregated data)
age_groups = ['18-24', '25-34', '35-44', '45-54', '55+']
marginal_worker_counts = [100, 250, 300, 200, 150]

# Create a bar chart for age distribution of marginal workers
plt.bar(age_groups, marginal_worker_counts)
plt.xlabel('Age Groups')
plt.ylabel('Number of Marginal Workers')
plt.title('Age Distribution of Marginal Workers')
plt.show()
```



➢ **Step 3:** Calculate the distribution of marginal workers based on industrial category, and sex.

```
import matplotlib.pyplot as plt
import seaborn as sns
# Replace 'your_dataset.csv' with the actual file path or URL of your dataset
data = pd.read_csv('/content/DDW_B06SC_3300_State_TAMIL_NADU-2011.csv')
plt.figure()
plt.axis('equal')
plt.title('Distribution of Marginal Workers by Sex')
plt.show()
```