Project Title	Industrial Human Resource Geo-Visualization
Technologies	EDA, Visualization, NLP
Domain	Resource Management

Problem Statement:

In India, the industrial classification of the workforce is essential to understand the distribution of the labor force across various sectors. The classification of main workers and marginal workers, other than cultivators and agricultural laborers, by sex and by section, division, and class, has been traditionally used to understand the economic status and employment trends in the country. However, the current data on this classification is outdated and may not accurately reflect the current state of the workforce. The aim of this study is to update the information on the industrial classification of the main and marginal workers, other than cultivators and agricultural laborers, by sex and by section, division, and class, to provide relevant and accurate data for policy making and employment planning.

Approach:

1) Merge all the csv data file provided to you and create dataframe

2) The classical machine learning tasks like Data Exploration, Data Cleaning, Feature Engineering, Model Building and Model Testing. Use Natural Language Processing for analyzing the various core industries and group the business categories like Retail, Poultry, Agriculture, Manufacturing etc

Results:

Develop a dashboard app with streamlit using plotly to visualize the workers population of various industries with respect to various geographies and Analyze some Facts and Figures for the Business Problem

Dataset:

Dataset_Link: [Data set](#)

About Dataset

Dataset contains the state wise counts of industrial classification of main and marginal workers of males and females who work under different works like manufacturing plastic products, rubber products, chemicals, furniture and constructions of buildings, retails etc..

Note:

After completion of all the task you need to create a PowerPoint presentation

That should contain the:

1. Problem Statement

2. Tools Used

3. Approaches

4. EDA Insights

Project Evaluation metrics:

- You are supposed to write a code in a modular fashion (in functional blocks)
- Maintainable: It can be maintained, even as your codebase grows.
- Portable: It works the same in every environment (operating system)
- You have to maintain your code on GitHub.(Mandatory)
- You have to keep your GitHub repo public so that anyone can check your code.(Mandatory)
- Proper readme file you have to maintain for any project development(Mandatory)
- You should include basic workflow and execution of the entire project in the readme file on GitHub
- Follow the coding standards: https://www.python.org/dev/peps/pep-0008/
- You need to Create a Demo video / Presentation of your Project and post in LinkedIn(Mandatory)