The following assignment is provided for the learners to assess their python understanding after the python refresher base camp. Do attempt them without the help of Gen AI 🙂. Of course you may take help of sample programs, online references etc …!

The file ‘ai\_job\_dataset.csv’ contains sample data about job postings of companies in various countries with details related to skills needed, experience level, years of experience need, education qualification, salary normalised in USD etc.

Make a Python class to analyse data file in this format. Consider that it shall work with any data file in this format (same columns, but data can be different). Make use of pandas data frame to read, process the data from CSV.

Design the “Job\_Data\_Analysis” class with the following methods supported:

* At the initialisation of object, the CSV file name to be provided. The other functions shall work based on this data.
* get\_company\_locations : return the list of company location countries
* get\_salary\_range\_per\_emp\_type : for a country as input, return a data frame containing min, mean, max salary per employee type. Employee type shall be columns
* get\_avg\_exp\_per\_level : for a country as input, return average number of years experience per experience level as a dict
* get\_num\_industry : return number of industries that are recruiting per country as a dict
* get\_benefit\_score\_range : return min, mean, max benefit score per country as a data frame