**Coding Project – Salary Analysis**

**Introduction :**

This report presents the analysis of a dataset containing annual salaries in a European country. The analysis includes loading the data from a csv file , creating a probability density function (PDF) curve, and calculating key statistical measures.

**Data** :

The dataset consists of annual salaries in Euros. It has no null values. The shape of the dataset is (4000, 1).

Probability distribution curve (PDF):

A statistical function that indicates the chance of a continuous random variable occurring inside a specific range of values is called the probability density function. it is frequently employed to stimulate a continuous random variable’s probability distribution . The higher salaries distribution is more than the lower salaries distribution.

**Mean :**

The mean , which denotes the average value of a collection of data, is a measure of central tendency in statistics. The mean salary based on the data is 12579.48.

**X(25%) :**

25% of people have a salary above 16634.75. The formula is as follows

X = percentile (data, 25)

A graph of a function of salary

Description automatically generated

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