**Salary Distribution Analysis**

**Name : Sree Varshini**

**Student Id : 22095406**

The dataset is arranged as a series of numerical values, each of which corresponds to a certain person’s annual salary.

**Probability Density Distribution :**

Here we can observe that distribution is centered around mean\_salary value, and the spread or width of the distribution is determined by the std\_dev (standard deviation) value. The formula is as follows

**Mean Salary :**

The mean salary is the average salary across the dataset. The mean salary in the given dataset is 26847.65 Euros. The formula for mean salary is as follows

**X Calculation :**

X, which is the fraction of population with salaries between W and 1.25W (where W is the mean value in the distribution). X value we got for the distribution is 33559.56 Euros.

A graph of a salary distribution

Description automatically generated