

# School of Computer Science Engineering and Technology

Course- BTech

Type- Core

Course Code-

Course Name- Statistical Machine learning

Year- 2023-2024

Semester- odd

Date – 17-08- 2023

Batch- ALL

Question 1:

<https://www.kaggle.com/datasets/rohankayan/years-of-experience-and-salary-dataset>

From the above data:

- a) Read the data with pandas and find features and target variables
- b) Plot a graph between features and target
- c) Find Best fit line using linear regression.

## Question 2: What factors influence life expectancy in Japan?

**Japan** stands out as one of the countries with the **highest population longevity**, from a global perspective , having the highest estimated life expectancy at birth of 84.26 years. The longevity of Japanese women is notable, ranking first worldwide with a life expectancy of 86.94 years, while Japanese men rank second with 81.49 years (World Health Organization, 2020). Japan's high life expectancy can be attributed to various factors. Technological progress, especially in the medical field, along with the country's accelerated economic development, in recent decades, have inevitably led to an increase in the average life expectancy of the population.

<https://www.kaggle.com/datasets/gianinamariapetrascu/japan-life-expectancy>

