**Linear Regression Examples**

* Predicting Home Prices: This method uses the house's size (measured in square feet) to estimate how much it will cost.
* Sales forecasting is the process of estimating future sales by examining the correlation between advertising expenditure and sales revenue.
* Using an individual's age to estimate their height is known as height prediction.
* Temperature Impact: Using the daily temperature to forecast ice cream sales.
* Weight Loss: Investigating the connection between calorie intake and weight loss over time.

### **Multiple Regression Examples:**

### Estimating a home's price involves taking into account a number of variables, such as the house's age, location, size, and number of bedrooms.

* Employee Performance: Forecasting employee performance according to training hours, education level, and years of experience.
* Healthcare Costs: Calculating healthcare expenses according to lifestyle factors, income level, age, and health conditions.
* Car Fuel Efficiency: Examining how a car's fuel type, weight, and engine size affect its fuel efficiency.
* Customer Satisfaction: Forecasting client satisfaction through pricing, customer service, and product quality.