## Statistical Topic

Mean 
$$(\bar{x}) = \frac{x_1 + x_2 + x_3 + x_4 + \dots + x_n}{n}$$

$$Median = \left(\frac{n+1}{2}\right)th$$

$$S an dard \ Deviation \ (\sigma) = \sqrt{rac{(x_1 - \bar{x})^2 + (x_2 - \bar{x})^2 + (x_3 - \bar{x})^2 + \dots + (x_n - \bar{x})^2}{n}}$$

$$Varience = rac{{{{\left( {{x_1} - ar x} 
ight)}^{\, 2}} + {{\left( {{x_2} - ar x} 
ight)}^{\, 2}} + {{\left( {{x_3} - ar x} 
ight)}^{\, 2}} + \cdots + {{\left( {{x_n} - ar x} 
ight)}^{\, 2}}}{n}}$$

$$S andard \ Score = rac{x_n - \overline{x}}{\sigma}$$