

the  $\mu$  is a constant and  $\sigma$  is the standard deviation of  $\mu$ . The  $\mu$  and  $\sigma$  are both unknown parameters to be estimated. The maximum likelihood estimates of  $\mu$  and  $\sigma$  are  $\bar{x}$  and  $s$ , respectively, where  $\bar{x} = \frac{1}{n} \sum_{i=1}^n x_i$  and  $s^2 = \frac{1}{n-1} \sum_{i=1}^n (x_i - \bar{x})^2$ .

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1. **Introduction**

2. **Methodology**

3. **Results and Discussion**

4. **Conclusion**

5. **References**











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