

# **Ensemble Techniques And Its Types-1**

## **Assignment Questions**

# Assignment

**Q1. What is an ensemble technique in machine learning?**

**Q2. Why are ensemble techniques used in machine learning?**

**Q3. What is bagging?**

**Q4. What is boosting?**

**Q5. What are the benefits of using ensemble techniques?**

**Q6. Are ensemble techniques always better than individual models?**

**Q7. How is the confidence interval calculated using bootstrap?**

**Q8. How does bootstrap work and What are the steps involved in bootstrap?**

**Q9. A researcher wants to estimate the mean height of a population of trees. They measure the height of a sample of 50 trees and obtain a mean height of 15 meters and a standard deviation of 2 meters. Use bootstrap to estimate the 95% confidence interval for the population mean height.**

**Note:** *Create your assignment in Jupyter notebook and upload it to GitHub & share that github repository link through your dashboard. Make sure the repository is public.*