Bayesian Methods

1. **Foundation**: Bayesian methods R based on Bayes' theorem, updating probabilities with new evidence.
2. **Classification**: They R useful for classification tasks where prior knowledge is available.
3. **Probabilistic**: These methods provide a probabilistic approach to decision-making under uncertainty.
4. **Estimation**: Supports both parameter estimation & hypothesis testing.
5. **Assumption**: Assumes independence between features in the case of Naive Bayes.
6. **Scalability**: Can be applied to large datasets effectively using approximate inference.
7. **Priors**: Incorporates prior distributions, making it flexible in modeling.
8. **Inference**: Offers methods like Markov Chain Monte Carlo (MCMC) for inference.
9. **Incremental**: Suitable for incremental learning as new data arrives continuously.
10. **Applications**: Commonly used in spam filtering, txt classification, & medical diagnosis.