

Experiment 7

Aim:

Implement Hidden Markov Model.

Theory:

HMM is a statistical model widely used in various fields, including speech recognition, natural language processing and bioinformatics.

This experiment involves implementing a Hidden Markov Model, which is a type of Markov Chain with hidden states.

Key Concepts of implementing HMM:

- States
- Observations
- Transitions
- Emission Probabilities
- Initial State Probabilities
- Forward and Backward Algorithms
- Training
- Decoding and Inference
- Applications

Flowchart:

