

## A. Decision Tree

### Movie Recommendation Decision Tree

This decision tree helps users find a movie recommendation based on their preferences. The process includes three decision nodes, each designed to guide users toward a personalized recommendation.

Root Node (Terminal Node):

Start Movie Recommendation : this is the starting point of the decision process where the user begins making selections.

Decision Node 1 (Diamond):

Question: What genre do you prefer?

Branches: Action, Comedy, Drama

Decision Node 2 (Diamond):

Question: What rating range do you want?

Branches: below 8.5, high 8.5+

Purpose: to make sure recommendation is high quality

Decision Node 3 (Diamond):

Question: Do you want a movie or a show?

Branches: Yes, No

Purpose: To get the right format for the user

Leaf Nodes (Terminal Nodes): Recommend Movie/Show A, Recommend Movie/Show B, Recommend Movie/Show C, etc

## B. Flowchart

