AI Project

Title: Movie Recommendation System Using Search Algorithms

Group: 59

## Group Members:

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## Search Algorithms Used

1. State Space
2. Generate and Test
3. Hill Climbing
4. Best First
5. Problem reduction

What the program does: Takes as input a Movie name and Outputs 5 movies similar to it based on the algorithm used

Input: The Avengers

## Output:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| S.No | State Space | Generate and Test | Hill climbing | Best First | Problem Reduction |
| 1 | Avengers: Age of Ultron | 2012 | The Lovers | Pirates of Caribbean: At world’s end | Pirates of Caribbean: Dead man’s chest |
| 2 | Avengers: Infinity Wars | Up | The wolfman | The Dark Knight rises | Pirates of Caribbean: At world’s end |
| 3 | Revenger | X2 | The BFG | Harry Potter and Half-blood Prince | Lone Ranger |
| 4 | Bangers | Click | The Revenant | The Lone Ranger | Hobbit: Battle of 5 armies |
| 5 | Surrender | xXx | The Wolverine | The Chronicles of Narnia:Prince Caspian | Amazing Spider Man |

Inference:

From the above we can see that the usage of different algorithms is better in different scenarios but on using a random input we can give the following result

**Best First>Problem Reduction> State Space> Hill Climbing>Generate and Test**

## Interface and GUI:

### Input:



### Output:

A screenshot of a computer program

Description automatically generated with medium confidence