

Nanjing University of Aeronautics and Astronautics

A Lab Report

On

Lab-1

A* Search Algorithm

Lab-2

Bayesian Algorithm

Submitted To

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A* solves the 8-Puzzle problem

Implementation of N-Puzzle in Python. I have used two classes in my code: Node & Puzzle.

Node class defines the structure of the state(configuration) and also provides functions to move the empty space and generate child states from the current state. Puzzle class accepts the initial and goal states of the N-Puzzle problem and provides functions to calculate the f-score of any given node(state).

Evaluating New Marketing Campaigns Using Bayesian Inference

Assume that we run an ecommerce platform for clothing and in order to bring people to our site, we deploy several digital marketing campaigns. These campaigns feature various ad images and captions, and are presented on a number of social networking websites. We want to present the ads that are the most successful. For the sake of simplicity, we can assume that the most successful campaign is the one that results in the highest click-through rate: the ads that are most likely to be clicked if shown.