Mindluster Platform

About the course String matching algorithms techniques

String matching algorithms , in this course dives into the essential techniques for efficiently finding patterns within texts. Explore foundational algorithms like Brute Force, Knuth-Morris-Pratt (KMP), Rabin-Karp, and Boyer-Moore, while understanding advanced methods such as Z-Algorithm, Suffix Trees, and Aho-Corasick for multi-pattern matching. Learn how these algorithms are applied in real-world scenarios like search engines, bioinformatics, and text analysis. The course also covers approximate matching techniques using dynamic programming and explores cutting-edge applications in big data. By the end of this course, you'll master the logic and implementation of these algorithms, enhancing your problem-solving skills and computational efficiency.

Computer Science Category's Courses

Course Lesson(6)

Lesson 1 : **String Matching 1 The Naive Algorithm**

Lesson 2 : **String Matching 2 Naive Implementation**

Lesson 3 : **String Matching 3 The KMP Algorithm**

Lesson 4 : **String Matching 4 KMP Pattern Preprocessing**

Lesson 5 : **String Matching 5 KMP Pattern Preprocessing Implementation**

Lesson 6 : **String Matching 6 KMP Search Implementation**

Related courses

Linear Algebra for Computer Scientists

Insertion Sort

Bubble Sort

GCSE Computer Science

Random Access Memory

Binary Trees

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