



Classifying seismograms using the FastMap algorithm and support-vector machines

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Neural networks and related deep learning methods are currently at the leading edge of technologies used for classifying complex objects such as seismograms. However they generally demand large amounts of time and data for model training and their learned models can sometimes be difficult to interpret. FastMapSVM is an interpretable machine learning framework for classifying complex objects, combining the complementary strengths of FastMap with support vector machines (SVMs) and extending the applicability of SVMs to domains with complex objects. FastMap is an efficient linear-time algorithm that maps complex objects to points in a Euclidean space while preserving pairwise domain-specific distances between them. Here we invoke FastMapSVM as a lightweight alternative to neural networks for classifying seismograms. We demonstrate that FastMapSVM outperforms other state-of-the-art methods for classifying seismograms when train data or time is limited. We also show that FastMapSVM can provide an insightful visualization of seismogram clustering behaviour and thus earthquake classification boundaries. We expect FastMapSVM to be viable for classification tasks in many other real-world domains.

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Fastmap Washington State

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Fastmap Washington State:

This book delves into Fastmap Washington State. Fastmap Washington State is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Fastmap Washington State, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Fastmap Washington State
 - Chapter 2: Essential Elements of Fastmap Washington State
 - Chapter 3: Fastmap Washington State in Everyday Life
 - Chapter 4: Fastmap Washington State in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, this book will provide an overview of Fastmap Washington State. The first chapter will explore what Fastmap Washington State is, why Fastmap Washington State is vital, and how to effectively learn about Fastmap Washington State.
3. In chapter 2, the author will delve into the foundational concepts of Fastmap Washington State. This chapter will elucidate the essential principles that need to be understood to grasp Fastmap Washington State in its entirety.
4. In chapter 3, the author will examine the practical applications of Fastmap Washington State in daily life. This chapter will showcase real-world examples of how Fastmap Washington State can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Fastmap Washington State in specific contexts. This chapter will explore how Fastmap Washington State is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Fastmap Washington State. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Fastmap Washington State.

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