

Prediction of Wildfire through the Kernel-based Data Mining Techniques

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Abstract: Climate Change, a by-product of Global Warming, is an intrinsic issue of the 21st century. Regardless of individual stance of the issue, we cannot ignore the cataclysmic events it is ushering. Wildfires are one such events that are being caused by the change in climate. Earlier this year, Australia faced a testament to climate change that brought devastation to it's ecosystem. The costs and numbers of such devastations could be decelerated by the use of technology and the data at our disposal. Through the use of datasets such as temperature, humidity, rainfall, and moisture of soil in a specific location. For this project the datasets will be acquired from Kaggle. Once the datasets are acquired, using techniques such as Kernel Method, we can predict if that specific region or location is vulnerable to such cataclysmic events. Moving forward, efficient algorithms can be developed that will help in reduction of damages, both physical and financial.

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