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Report on Disaster-Prone Areas in Jharkhand: Pattern Analysis and Prevention Strategies

Abstract

This report presents a detailed study of disaster-prone areas in Jharkhand, India, using a dataset that

includes historical disaster occurrences across the state. A pattern analysis was conducted to identify

key reasons behind these vulnerabilities. Based on the findings, this report also suggests actionable

measures for disaster risk reduction and management.

Introduction

Jharkhand, known for its rich mineral resources and dense forests, frequently experiences a variety

of natural and human-induced disasters. These include floods, droughts, landslides, forest fires, and

mining-related accidents. Understanding the spatial distribution and underlying causes of these

disasters is crucial for mitigating risks and ensuring the safety and resilience of communities.

Dataset Overview

The dataset utilized for this analysis contained detailed information on:

e Locations affected by disasters (district, block, village-level data)

e Type of disaster (e.g., flood, drought, landslide, fire, industrial accidents)

e Frequency and intensity of disaster events over the past two decades

e Socio-economic and environmental factors associated with each area (such as rainfall, land

use, mining activity, forest cover)

Pattern Analysis

# Summary

Report presents a detailed study of disaster-prone areas in Jharkhand, India. A pattern analysis was conducted to identify key reasons behind these vulnerabilities. Based on the findings, this report also suggests actionable measures for disaster risk reduction and management. The report was published by the Indian Institute of Technology, Kharagpur.

# Keywords

disasters, jharkhand, floods, disaster, landslides, flood, forests, landslide, accidents, fires