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Project Proposal

3.2a Technology and Standards for Geospatial Workflow

Indian Institute of Remote Sensing

**Objective:** To develop an android app to ensure user security while travelling in a landslide risk zone in Uttarakhand using weather nowcast

**Introduction**

Uttarakhand's mountainous regions are prone to landslides due to their geological characteristics and weather patterns. Travelers in these areas face potential risks and challenges, necessitating the development of innovative solutions to ensure their safety. This project proposes an Android application that harnesses the power of weather nowcast technology to provide accurate and timely weather forecasts, enabling users to mitigate the risks associated with landslides. The app's objective is to empower travellers with the information necessary to make informed decisions, plan their journeys accordingly, and respond proactively to any potential threats.

This project will lead to

* **Understanding the Landslide Risk in Uttarakhand**
* **Leveraging Weather Nowcast Technology for landslide hazard mitigation**

**Benefits and Impact of the App**

The potential benefits and impact of the Android app on user security and overall safety in Uttarakhand's landslide risk zones. It enables the travellers with valuable information, enabling them to avoid hazardous areas and make informed decisions about their journeys. Additionally, it explores the potential reduction in casualties and infrastructure damage resulting from landslides due to improved awareness and proactive planning facilitated by the app.

**Conclusion**

In conclusion, the Android app leveraging weather nowcast technology can significantly enhance user security during travel in Uttarakhand's landslide risk zones. By providing real-time weather updates, personalized alerts, and valuable information, the app empowers travellers to make informed decisions and mitigate the risks associated with landslides. Implementing such an application can contribute to reducing casualties, infrastructure damage, and overall enhance the safety of individuals exploring Uttarakhand's picturesque yet challenging landscapes.