**A PROJECT REPORT (IT421)**

**on**

**Landslides Prediction and Detection Using IoT System**

**BACHELOR OF TECHNOLOGY**

**In**

**INFORMATION TECHNOLOGY**

**by**

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**Under the Guidance of**

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**DIT UNIVERSITY, DEHRADUN**

(State Private University through State Legislature Act No. 10 of 2013 of Uttarakhand and approved by UGC)

**Mussoorie Diversion Road, Dehradun, Uttarakhand - 248009, India.**

**Nov 2022**

**CANDIDATES DECLARATION**

I hereby certify that the work, which is being presented in the Report, entitled **Landslides Prediction and Detection Using IoT System,** in partial fulfillment of the requirement for the award of the Degree of **Bachelor of Technology** and submitted to the DIT University is an authentic record of my work carried out during the period **Aug 15** to **Nov 24** under the guidance of Dr. Pradeep Singh Rawat.

**Date: 24 Nov 2022**

**Signature of guide: Signature of the Candidates:**

**Shirshak Kr Kafle**

**Aditya Amgain**

**Harsh Rai**

**ACKNOWLEDGEMENT**

We have done more effort into this phase-3 project. It would not be possible without the kind support and help of my team member. We would like to give our kind thanks to all of them. Also, we are thankful to our project guide Dr. Pradeep Singh Rawat sir under his guidelines we can progress in our project. He helps us by providing sensors and equipment which had helped in our project. We are thankful to him for providing his time and support to help in our project.

**Name of Candidates**

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**ABSTRACT**

Landslide Prediction and Detection Using IOT System is one of the important research topics for enabling different Natural Disasters. It’s a serious threat to the Human and damages the various poverty and surface Environment of the global. As we all know that landslides occur naturally, so we don’t know when it occurs. It is very important to get the exact location for rescuing the people from it. We can get information from satellites and different sensors which are embedded in them. It makes it easy for making landslide databases, find the landslides occurring area, and make a friendly environment for people and nature. If we detect or predict the information about landslides, then we don’t have to get several damages to the environment. So, it’s necessary that we can find a solution in which we get information quickly and data accurately. Landslides mainly occur due to climate change in the environment.