

**A
Project Report
On
MACHINE LEARNINGBASED SATELLITEIMAGE ANALYSIS**

**SUBMITTED AS THE PARTIAL FULFILLMENT OF
DEGREE OF**

Master of Science in Geoinformatics

**Under the Guidance of Indian Institute of Remote
Sensing (IIRS), ISRO**

Submitted by

Divya Patel

ID No. : 18GI02

EXAM No. :02

**Institute of Science & Technology for Advanced Studies
& Research (ISTAR)**

Under the guidance of

Prof. Krunal Suthar



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Machine Learning based Satellite image Analysis

Report Submitted for
Completion of Training under



Indian Institute of Remote Sensing (IIRS)

Submitted by
DIVYA PATEL

Master of Science in Geoinformatics

Institute of science & technology for advance studies and research
ISTAR

Under the guidance of

Dr. Kamal Pandey

(Scientist/Engineer-SE: -IIRS-ISRO)



**INDIAN INSTITUTE OF REMOTE SENSING (ISRO)
DEHRADUN, UTTRAKHAND**

DECLARATION

I hereby declare that the thesis entitled "**MACHINE LEARNING BASED SATELLITE IMAGE ANALYSIS**"-being submitted in partial fulfilment for the award of master of science in Geoinformatics of research work done by me under the guidance of **Dr.Kamal Pandey**, scientist/Engineer-SE at Central Computing Facility(CCF) Geographic information technology and Distance learning(GIT/DL), Indian Institute of Remote Sensing(ISRO),Dehradun.

The project is completed sincerely under the supervision of Mr. Krunal Suthar, Faculty of M.SC. Geoinformatics, Institute of Science and Technology for Advanced Studies and Research, affiliated to sardar patel University (**SPU**), Vallabh Vidhya Nagar.

Signature:

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Date: 12/04/2020

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CERTIFICATE

This is to certify that the project titled '**Machine Learning based Satellite Image Analysis**' is done by **Ms. Divya Patel**, student of Mater of Science in Geoinformatics from Institute of Science & Technology for Advanced Studies & Research (ISTAR) Vallabh, Vidyanagar. She has carried out this project work at under the supervision of the undersigned at **Indian Institute of Remote Sensing, Dehradun** from **December 12, 2019 to April 30, 2020** (March 21- April 30, 2020 via Work at Home) as a part of her final semester project work.

During the project work, I found her sincere and hard working. She understood the problem and implemented it independently. I wish her success in her future endeavors.

Date: April 30, 2020

(Project Guide)

Kamal Pandey
Scientist/Engineer 'SE'
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This is to certify that Mr. / Miss DIVYABAHEN ASHOKBHAI PATEL Exam Number 2, student of M.Sc. Geoinformatics, Institute of Science & Technology for Advanced Studies & Research, Vallabh Vidyanagar, Gujarat has carried out his/her 4th semester project work - (PS04CGIN21) in M.Sc. Geoinformatics from 12th December 2019 to 30th April 2020 as a partial fulfillment of Master of Science in Geoinformatics affiliated to Sardar Patel University.

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Divya patel