**PREETI KUMARI**

**Research Scholar under DST- RFBR (*Remote Sensing and GIS)***

K J Somaiya Institute of Applied Agricultural Research (KIAAR), Bagalkot District, Karnataka

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LinkedIn ID: <https://www.linkedin.com/in/preeti-tiwari-353151120>

SKYPE ID: preetitiwari262513

**PROFILE SUMMARY**

 Experienced in Remote Sensing and GIS based projects right from writing project proposals to implement it based on requirements and execution, scientific SCIE indexed research papers are under review. Keep working towards enhancement of knowledge by attending training, workshop, online courses and conferences in multi-dimensional industries including electronics, education management, RS based commercial company, and Research and development organization. Skilled in the latest versions of RS and GIS software like ArcGIS, QGIS, ENVI, ERDAS Imagine, to manipulate the spatial and non-spatial data to make useful information. Intermediate programming skills in Matlab, python and Embedded Systems. Strong research professional whose motive is to contribute to the society by the use of recent technologies.



# EDUCATION

**Masters in Geoinformatics** Year of Completion: MAY 2018

Birla Institute of Technology, Mesra Marks: 8.6GPA (Batch topper)

Deemed University, Division: 1st

Mesra, Ranchi- 835215

**Bachelor in Geography** Year of Completion: July 2016

St. Xavier's College Marks: 73.56%

Autonomous college affiliated to the Ranchi University Division: 1st Ranchi, Jharkhand-834001

# Professional Qualifications and Affiliations

* + - Awarded with **G.P BIRLA Scholarship**.
    - **First Rank holder** in M. Sc Geoinformatics (2016-18).
    - Awarded with certificate for having two week course on “**[Geospatial Applications for Disaster Management”](https://www.linkedin.com/company/united-nations-office-for-outer-space-affairs/?lipi=urn%3Ali%3Apage%3Ad_flagship3_profile_view_base%3B4xJFUCELTnqCSeHsIjnAnw%3D%3D&licu=urn%3Ali%3Acontrol%3Ad_flagship3_profile_view_base-background_details_certification)** [conducted by (UNOOSA) United Nations Office for Outer Space Affairs & Indian Institute of Remote Sensing (IIRS), Indian Space Research Organization (ISRO) issued on Oct 2020.](https://www.linkedin.com/company/united-nations-office-for-outer-space-affairs/?lipi=urn%3Ali%3Apage%3Ad_flagship3_profile_view_base%3B4xJFUCELTnqCSeHsIjnAnw%3D%3D&licu=urn%3Ali%3Acontrol%3Ad_flagship3_profile_view_base-background_details_certification)
    - Attended and awarded with certificate for **One week online FDP on "Data Science"** conducted by the Dept. of Information Technology of FR. Conceicao Rodrigues College of Engineering, Mumbai.
    - Attended National Workshop on **‘Popularisation of Remote Sensing Based Maps and Geospatial Information’**, organised by Indian Society of Remote Sensing and Indian Space Research Organisation on the eve of National Remote Sensing Day on August 11, 2017**.**
    - Awarded with certificate for having course on “**Basics of Remote Sensing, Geographical Information System & Global Navigation Satellite System”** conducted by Birla Institute of Technology, Mesra during August 22, 2016 to November 18, 2016.

**WORK** **EXPERIENCE**

**April 2019** to **Present KIAAR (K J Somaiya Institute of Applied Agricultural Research) –***Sameerwadi, Karnataka*

* + - * In season monitoring of sugarcane in peninsular India using RS and GIS.
      * Sugarcane crop acreage estimation and Identification of different stages of sugarcane using optical data.
      * Arable land mapping and creation of spectral library for sugarcane crop and its varieties.
      * Soil nutrient variability mapping.
      * ET and CWSI map ping using METRIC model
      * Nitrogen and crop water status prescription mapping.
      * Project proposal writing for national and international projects.

# INTERNSHIP

**May’18 – Jun’18 CMPDI (CENTRAL MINE PLANNING AND DESIGN INSTITUTE) –** Ranchi, Jharkhand

* + - * Land use/vegetation cover map of Govinda UG colliery is prepared based on IRS-R2 L4FX data
      * Core and Buffer zone analysis to analyse and monitor the mining and other industrial activities of Govinda UG colliery (SECL).
      * Real-time disaster monitoring/Assessment.



# DISSERTATION

**Jan’ 18- May’18 Birla Institute of Technology, Mesra -** Ranchi, Jharkhand

### Assessment of Urban Greencover and Its Structural Characteristics through Geo-Informatics.

* To assess the influence of phenological variability of vegetation and crop on the extraction of greencover
* To determine the seasonal and monthly variation in the interrelationship between the LAI and different indices (biophysical characteristics), and between the LST and different indices (biophysical characteristics)
* To determine the spatio- temporal variability of the biophysical variables vis-à-vis the various LULC.



# Research Papers

* Submitted paper to 15th International Society of Precision Agriculture (ISPA) 2020 conference “**Sugarcane Crop Classification and Varietal Discrimination from Sentinel-2 Using Supervised Classifier**".
* Submitted paper to 15th International Society of Precision Agriculture (ISPA) 2020 conference “**Precision Agriculture Approach for Understanding Spatial Variability of Sugarcane Productivity: a Case Study from Karnataka**”.
* A chapter is submitted “**Assessment of the Spatio-Temporal Variation of Biophysical Indices in the Spectral Delineation of the Urban Green Cover: A Case Study from Ranchi**” for book entitled “Geo-information Technology in Earth Monitoring and Management (Scopus Indexed). (Published in Jan 2021)



# COMPUTER/TECHNICAL Proficiency

* **Technical Proficiency:** Intermediate in JAVA, C, Python
* **Software proficiency:** Arc Map, ENVI, QGIS, ERDAS imagine, Grass GIS, Google Earth

# KEY STRENGTHS

* Geo-informatics with Applications in Environmental Science and Biodiversity, Disaster Management, Agriculture, Geosciences, Water resources, Urban planning.
* Spatial analysis and modelling, Digital image processing, GPS surveying.



**LANGUAGES**

* Hindi
* English

# PERSONAL INTERESTS

|  |  |
| --- | --- |
| * To read about culture and tradition about other countries currently reading about South Korea and News Articles | |
| * Traveling and Photography | * Play Chess, Handball, Basketball |
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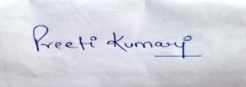


**EXTRA-CURRICULAR ACTIVITIES**

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| --- | --- | --- |
| Father’s Name: | Mr. Sanjay Kumar Tiwari | Marital Status: Single |
| Birthday: | January 26, 1996 | Nationality: Indian |
| Gender: | Female | Age: 24 |

### Declaration

I, Preeti Kumari, hereby declare that the information contained herein is true and correct to the best of my knowledge and belief.



Ranchi

26th Dec 2020