

# AJAY SHARMA

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Ranitala, Kulti, Asansol, Pin-713343, WB

7908263373| ajaysharma2441@gmail.com

## Education

- **Central University of Jharkhand Ranchi**  
Integrated M.Tech in Geo-informatics with 8.1 CGPA  
2020

| Semesters  | SGPA | Percentage (%) | Semesters   | SGPA | Percentage (%) |
|------------|------|----------------|-------------|------|----------------|
| <i>1st</i> | 7.13 | 66.3           | <i>6th</i>  | 8.59 | 83.6           |
| <i>2nd</i> | 7.69 | 71.9           | <i>7th</i>  | 8.28 | 77.8           |
| <i>3rd</i> | 6.71 | 62.1           | <i>8th</i>  | 8.09 | 75.9           |
| <i>4th</i> | 7.83 | 73.3           | <i>9th</i>  | 9    | 85             |
| <i>5th</i> | 7.68 | 71.8           | <i>10th</i> | 10   | 95             |

- **De Nobili School Mugma (ISC) Dhanbad Jharkhand**  
12th (PCM) with 80.25 %  
2015
- **De Nobili School Mugma (ISC) Dhanbad Jharkhand**  
10th with 80 %  
2013

## TECHNICAL SKILLS

- **SOFTWARE**  
ArcGIS, QGIS, ENVI, ERDAS, ILWIS, R-Cran, Python, SNAP, Panoply
- **MANAGEMENT**  
Organizing Committee in Sports Fest (Khelotsav, 2018) at Central University of Jharkhand.

## Course Structure

- Fundamentals of Remote Sensing
- Geodesy and Digital Cartography
- Geosciences & Image Interpretation
- JAVA Programming
- Disaster Management
- Numerical Methods & Computation Techniques

- Geographic Information System
- Global Positioning System
- Digital Image Processing
- Surveying
- C Programming
- Aerial Photography & Digital Photogrammetry
- Spatial Database, Analysis and Modelling
- Advanced Remote Sensing Techniques
- Geoinformatics in Natural Resource Management
- Climatology & Satellite Meteorology
- Hydrology and water resources
- Geoinformatics in Regional and Urban planning
- Ecology & Forestry
- Data Mining and Neural Network
- Web GIS

## Experience

- **Summer Intern at Remote Sensing Application Center Lucknow (24 May 2017-4<sup>th</sup> July 2017)**
- **Intern at Geoverties Technology Pvt. Ltd. Ranchi | 21<sup>th</sup> December 2017-21<sup>th</sup> January 2018.**
- **Project intern at Central Groundwater Board (CGWB) Ranchi (1<sup>st</sup> February 2018-30<sup>th</sup> March 2018.)**
- **Summer Fellow at Banaras Hindu University (24<sup>th</sup> May 2019-30<sup>th</sup> June 2019.)**
- **M.Tech Project Fellow Indian Institute of Technology, Mandi (25<sup>th</sup> July 2019-Present)**

## Project:

- **URBAN CLASSIFICATION | REMOTE SENSING APPLICATION CENTER LUCKNOW) | 24 MAY 2017-4<sup>TH</sup> JULY 2017.**  
Parcel Based Inventory Mapping of Lalalajpat Rai Ward Lucknow City Using Remote and GIS Technique
- **SOLID WASTE MANAGEMENT | GEOVERTICES TECHNOLOGY PVT. LTD. RANCHI | 21<sup>TH</sup> DECEMBER 2017-21<sup>TH</sup> JANUARY 2018.**  
Solid Waste Management of Baithnath Dham Temple Using Remote Sensing and GIS Technique.
- **IMPACT OF PRECIPITATION, TEMPERATURE, EVAPOTRANSPIRATION ON MANGROVE OF BHITARKANIKA, ODISHA (Bikash Parida, Assistance Professor at CUJ)**
- **AQUIFER MAPPING OF GANGATIC REGION OF SAHEBGANJ (T.B.N Singh, Senior Hydrogeologist , CGWB, Ranchi)**
- **ARSENIC CONTAMINATION OF GROUNDWATER IN SAHEBGANJ (T.B.N Singh, Senior Hydrogeologist , CGWB, Ranchi)**

- **MODELLING LAND USE TRANSFORMATION OF ASANSOL REGION USING GEOINFORMATICS** (Using CA) (Dr. Kanhiya Lal, Assistant Professor,CUJ)
- **Identification of Major Lightning Area over India and Season as well** (Dr. Sunita Verma, Associate Professor, IESD-BHU)
- **An automated knowledge base building for urban flood Modelling Using Machine learning** (Dr. Arnav Bhavsar Vinayak, Associate Professor, IIT Mandi & Dr Kanhiya Lal, Assistant Professor, CUJ)

### Area of Research Interests

- Urban Studies and Risk Assessments
- Remote Sensing and GIS application on Hydrology, Meteorology, Forestry and Crop Monitoring
- AI and Deep Learning application on satellite imagery with integration of GIS
- Satellite Image Processing

### Personal Details

Gender – Male

Farther name - Anil Kumar Sharma

Occupation- Service (SAIL, Burnpur)

Mother Name- Sunita Sharma

Occupation – Housewife

Date of Birth - 09<sup>th</sup> September, 1996

Language – Hindi, English, Bhojpuri and Bangoli

### Published Paper

*“Pramod Kumar Yadava , Manish Soni, Sunita Verma, Harshbardhan Kumar, Ajay Sharma : The major lightning regions and associated casualties over India, Feb 2020, Springer Nature B.V. 2020, Natural Hazards”*

## References

|   |  |
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| Dr. Kanhaiya Lal<br>(Asst. Professor)   | Central University of Jharkhand, Ranchi<br>Department of Geoinformatics<br>Email- jnu.kanhaiya@gmail.com                       |
| Dr. Virendra Kumar<br>(Scientist-SE & Head Land use and Urban<br>Survey Division)                 | UP Remote Sensing Application Center Lucknow<br>Land use and Urban Survey Division<br>Email- vk15868@gmail.com                 |
| Binay Kumar                      Vivhaw Kumtal<br>(Technical Head)   (Geospatial Business Expert) | Geoverties Technology Pvt. Ltd. Ranchi<br>Email- binay@geoverties.com<br>Email- vibhaw@geoverties.com                          |
| T.B.N Singh<br>(Scientist-‘D’ )   | Central Ground Water Board, Ranchi<br>Email- tbnsingh08@gmail.com  |
| Sunita Verma<br>(Associate Professor)   | Banaras Hindu University, Varanasi<br>Institute of Environment and Sustainable<br>Development<br>Email- verma.sunita@gmail.com |
| Dr. Arnav Bhavsar<br>(Associate Professor)  | Indian Institute of Technology, Mandi<br>Email- arnav.iitmandi@gmail.com   |