

VIKASH KUMAR SHARMA

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ACADEMIC DETAILS

Year	Degree / Exam	Institute/Board	GPA/Marks (%)
2017	M.Tech, Environment Science (Earth System Science & Technology)	Indian Institute of Technology Kharagpur	8.73
2015	B.Tech (Mechanical & Automation Engineering)	GGSIU Delhi	74.36
2009	Class XII	BSEB Patna	67.20
2007	Class X	BSEB Patna	71.40

PROFESSIONAL & RESEARCH EXPERIENCE

Bihar Rural Livelihoods Promotion Society (BRLPS)

Nov'2018 – Feb'2021

Designation: Young Professional

Responsibilities:

- Work as a SLAC (Sustainable Livelihood Adaptation & Climate Change) Project at Barachati Gaya using AWS data.
- Responsible as District Thematic Manager to implement the entrepreneurship and livelihood projects, Plantation, Didi Ki nursery and programs of Govt. of India, Govt. of Bihar, and World Bank with Govt. Dept's coordination.
- Assigned as Project Nodal coordinator for SoULS (Solar Urja through Localization for Sustainability) project of MNRE, IIT Bombay & EESL.
- Identification and Establishment of Rural Micro-level Enterprises for localized livelihood generation such as Assembly & Distribution Centre(ADC), Repair & Maintenance Centre(RMC), S-MART (Solar Shop) etc.
- Involve as Technical & Business Development trainer for SHG members and other staff to implement the Alternative Rural Energy system from local energy resources and Renewable Energy.
- Work as a core technical team member for the establishment of **J-WiRES** JEEViKA Women Initiative Renewable Energy & Solution Pvt. Ltd. (A women-initiated solar company).

Digital India Corporation, Gov. of India (MeitY)

Feb'2021 – May'2022

Designation: Young Professional

Responsibilities:

- Work as an E-waste assessment and end-of life material recycling.
- Meity Start-up Hub.
- Projects to formulate policy interventions by leading engagements with key stakeholders in climate change, Farmer Agristack, PM Kisan etc.
- Worked in the domains of Data analysis, Disaster relief sector, Agriculture Sector, Tourism Sector
- Visualization tools like Power-BI and several citizen-centric government schemes at both central and state level.
- Coordinate with various ministry like MoE, MoA, MoD and MoR etc.
- Analysis of data Governance policies of Canada, South Korea, Japan etc.
- My scheme Project Policy
- Worked on InDEA 2.0 Architecture, DigiLocker, UMANG Platform etc.

Indian Institute of Technology, Roorkee, Gov. of India

Jun'2022 – Till date

Designation: Technical Incharge

Responsibilities:

- Training and Capacity Building of Solar Energy.
- Solid waste management
- Prepare Technical Documentation
- Monitoring flood area with drone
- Dam testing,
- R&D Work etc.

IIT KHARAGPUR (ISRO-SAC Ahmedabad) MASTER'S THESIS

Title - Diurnal variation of cloud cover area and cloud top temperature over Tropical Cyclone in the

Supervisor -	North Indian Ocean Basin using Indian satellite data from 2008 to 2016 Dr. C. Shaji, Dr. Satya Prakash Ojha
Duration -	July'16–March'17
Description-	Diurnal variation of cloud cover area and cloud top temperature over Tropical Cyclone in the North Indian Ocean Basin using Indian satellite data from 2008 to 2016. <ul style="list-style-type: none"> ▪ AWS (Automatic Weather Station) Data Analysis from 2013 to 2016 and Calculate Human Discomfort Index due to change of Humidity and Temperature in Indian Region. ▪ Diurnal variation of Latent Heat Release and Precipitation over Tropical Cyclone in the North Indian Ocean Basin using GSMaP (Global Satellite Mapping of Precipitation) and Kalpana data from 2008 to 2016

RESEARCH INTEREST

- Policy Work, Government Planning, Tech Policy, Atmospheric and Oceanic Remote Sensing, Cloud, Precipitation Chemistry and Physics, Air pollution, PM2.5, Black carbon deposition Aerosol and other Optical Particle Characterization Numerical Modelling of Chemistry and Climate Mechanical and Thermal science Renewable Energy Environment Science etc.

WORKSHOP/ CONFERENCE / INDUSTRIAL TRAINING

- Attended Industrial Electronics System Development & Manufacturing: Product Development Workshop Conducted by IC IIT Patna
- Attend Entrepreneurship Development Program Conducted By IIT Patna
- Attend TEQIP – 3 Capacity Building Training on Energy Modeling & Energy Planning Conducted by School of Energy & Environment Management, UTD, RGPV & The Celestial Earth, Gurgaon.
- Attend Training of Coach Care Centre, Northern Railway New Delhi.
- Attend Training Program on Solid Edge Fundamentals Conducted by Siemens Industry Software India Pvt. Ltd.
- Attend Training Program on Essentials for NX Designers Conducted by Siemens Industry Software India Pvt. Ltd.

RESEARCH & CONFERENCE PAPERS

- **Vikash Kumar Sharma**, Prabhat Kumar, Satya Prakash Ojha and Sanjay Kumar Sharma: “*Diurnal Variation of Clouds Cover Area and Clouds Top Temperature over Tropical Cyclone in the North Indian Ocean Basins*” - International Journal of Current Microbiology and Applied Sciences ISSN: 2319-7706 Special Issue-9 pp. 331-352;
- Sanjay Kumar Sharma, Arun Kumar, Prabhat Kumar, **Vikash Kumar Sharma** and Randhir Kumar: “*Effect of Seed Enhancement Treatments on Field Parameters of Wheat Seed Produced under Zero Tillage Condition*” - International Journal of Current Microbiology and Applied Sciences ISSN: 2319-7706 Special Issue-9 pp. 398-403;
- **Vikash Kumar Sharma**, C.Shaji, Satya Prakash Ojha: “*A study on diurnal variation of clouds over tropical cyclones in the north Indian Ocean basins*” ,Osicon–2017 Abstract ID # 425 NCESS, Trivandrum during 28th –30th August, 2017.
- **Vikash Kumar Sharma** ,C.Shaji, Satya Prakash Ojha: “*Diurnal variation of Precipitation and Latent Heat Release over Tropical Cyclone in the North Indian Ocean Basin*” ,Intromet-2017, Abstract ID #INTROMET-011, 7th – 10th November Ahmedabad, India 2017

COURSES DONE

Advance Meteorology, Tropical Meteorology, Carbon Cycle and Global Climate Change, Modeling of Extreme Events, Atmospheric and Hydrological Modeling, Data Analysis & GIS application, Dynamics of Fluvial System, Climate Risk Assessment in Agriculture, An Introduction to Global Spectral Modeling, Coastal Process & Ecosystem, Ocean Dynamics, Ocean & Storm Surge Modeling. Thermodynamics, Heat And Mass Transfer, Fluid Mechanics, IC Engine, Emission & Pollution Control, renewable energy system, Environment, Solar Refrigeration & Air Conditioning, Power plant engineering,

CERTIFICATION

- Certification Course: “Advance Technology for Humanity” – Strategies for Searching IEEE Xplore offered by Collabroration with Central Library, IIT Delhi – Completed
- Certificate Course: “Ham Aur Hamari Sarkar” offered by Accountability Initiative, Centre for Policy Research - Completed.

- Certification Of Participation: “Advance Research Programme” offered by Satellite Meteorology and Oceanography Research and Training Programme SMART (ISRO-SAC Ahmedabad)

TECHNICAL SKILLS

- ☐ **Programming Languages:**
MATLAB, Python, Fortran, NCL, AutoCAD, Latex, Lyx
- ☐ **OS and Software:**
Windows and Linux, Microsoft office package (Word, Excel, PowerPoint), LibreOffice, Ubuntu.
- ☐ **Modeling & Analysis tools:**
Hands-on experience of Insat-3d, Insat-3dr, Kalpana data, AWS Data analysis @SAC Ahmedabad Hands-on experience of Supercomputer @ IITD : The Central Hybrid Supercomputing Cluster at Indian Institute of Technology Delhi, CESM Model.

POSITIONS OF RESPONSIBILITY

- ☐ Organizing Team members of the International Climate Change Conference at IIT Delhi.
- ☐ Organizing Team Member of Intromet – 2017 at ISRO SAC Ahmedabad

PERSONAL INFORMATION

DOB	06/02/1991
Passport No	N9286394
Present Address	Vill- Inarwa, PO – Inarwa, PS – Inarwa, Dist – West Champaran Bihar - 845306

DECLARATION

I hereby solemnly declare that all the information given above is true and correct to the best of my knowledge and belief.

Place: Roorkee
Dated: 12-04-2024

(Vikash Kumar Sharma)