



Suman Sharma

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● ABOUT ME

Dedicated to transform construction through technology and innovation, driving measurable progress across key SDGs. Track record in digital transformation, environmental innovation, and disaster-resilient infrastructure for vulnerable communities.

● EDUCATION AND TRAINING

2021 – 2025 Bhubaneswar, India

B.TECH IN COMPUTER SCIENCE AND ENGINEERING & MINOR IN FINANCIAL ECONOMICS Kalinga Institute of Industrial Technology (KIIT) University

Website www.kiit.ac.in | **Final grade** 8.59/10

● WORK EXPERIENCE

CO-FOUNDER & MANAGER | MB ECOCONSTRUCT – Jun 2023 – Current – RUKUM-WEST, NEPAL

Phase 1: Student Founder (Jun 2023 – April 2025): Co-founded the initiative during undergraduate studies

Phase 2: Co-Founder & Full-time Manager (May 2025 – Current): Transitioned to full-time leadership upon graduation

- Implemented digital management systems improving operational efficiency by 30% and enhancing project transparency for stakeholders
- Developed machine learning model to optimize procurement process, reducing material costs while supporting local suppliers

● PROJECTS

28 FEB 2024 – 9 APR 2024

Plant Diseases detection using VGG16 (A deep learning Model)

- Developed AI-powered solution addressing crop security challenges for smallholder farmers, contributing to food security and sustainable agricultural practices in vulnerable farming communities
- Built deep learning model (VGG16) achieving 92.96% accuracy in plant disease detection

Link https://colab.research.google.com/drive/1g_weCIAr53aYuelcsbeVp9NqR0X5UqXM?usp=sharing

7 JUN 2023 – 14 AUG 2024

EcoInsights Platform

- Developed web-based platform with environmental data access to empower communities in monitoring their ecological footprint and making data-driven sustainability decisions
- Built interactive dashboards using ReactJS, Tailwind CSS, Node.js, and MongoDB tracking waste recycling, carbon emissions, and energy consumption across local communities
- Contributed to culture of sustainability and continuous improvement through accessible environmental metrics tracking

Link <https://ecoinsight-plum.vercel.app/>

- Developed market-based solution addressing fundraising inefficiency in college volunteer programs, improving resource mobilization for social initiatives through transparent, technology-enabled donor engagement
- Built secure web-based donation platform improving fundraising efficiency by 40% and enhanced financial transparency and accountability

Link <https://fundreach.vercel.app/>

● **MANAGEMENT AND LEADERSHIP EXPERIENCE**

2023

Project Manager – Earthquake Relief Construction Project

- Coordinated 30+ workers and subcontractors ensuring quality standards, safety protocols, and community engagement throughout project lifecycle
- Managed construction of 3 earthquake-resilient homes through MB EcoConstruct in post-disaster environment, delivering immediate housing solutions while incorporating long-term resilience features for vulnerable families

FEB 2022 – JAN 2025

Project Leader – Undergraduate Major Projects

- Led cross-functional student teams developing three technology solutions addressing real-world challenges: AI plant disease detection for sustainable agriculture, personal cloud storage for secure low-cost data access, and Smart Education Platform for personalized learning
- Managed end-to-end project lifecycles including requirement gathering, resource allocation, technical problem-solving, and team communication

14 NOV 2019 – 12 MAY 2021

Coordinator – Binary Bomber Club (Technology & Management Club)

- Built culture of collaboration, creativity, and peer learning within technology student community, engaging 500+ students in skill development and knowledge sharing
- Coordinated college-wide programs including workshops, competitions, and tech events

● **PUBLICATIONS**

2024

Fraud Detection in Financial Institutions Using Machine Learning: A Comparative Study of Logistics Regression, Multi-Layer Perceptron and Decision Tree

S. Sharma, B. Jha, 2024, Fraud Detection in Financial Institutions Using Machine Learning: A Comparative Study of Logistics Regression, Multi-Layer Perceptron and Decision Tree, Viksit Bharat@2047, Vol.3, p113-120. ISBN: 978-93-6678-383-3

Authors: Suman Sharma | **Journal Name:** Viksit Bharat@2047 | **Volume, Issue and Pages:** Vol. 3, p113-120 | **Publisher:** Mahi Publication

Link https://sumansharma59.com.np/viksit_bharat

● **CERTIFICATIONS**

Ministry of Youth Affairs and Sports | Government of India

BRICS Youth Council Entrepreneurship

Participated in the BRICS Youth Council Entrepreneurship, where youth representatives from BRICS countries gathered to discuss entrepreneurial solutions for sustainable growth.

Link https://sumansharma59.com.np/brics_entrepreneurship

Biodiversity Finance Designing and Implementing finance plans for Nature

Developed finance strategies for biodiversity projects, focusing on sustainable funding, investment planning, and resource mobilization to support conservation and sustainability efforts.

Link https://sumansharma59.com.np/biodiversity_finance

Competitiveness Through Enterprise Sustainability

Gained insights into industry best practices and real-world examples of businesses benefiting from sustainable measures to enhance competitiveness and long-term success.

Link https://sumansharma59.com.np/competitiveness_sustainability

Art of Giving Membership

Active member of community initiative supporting indigenous students through educational programs.

Link https://sumansharma59.com.np/art_of_giving

Y-20 Certificate

Selected for Y20 Summit, contributing to policy discussions, international collaboration, and solution-oriented dialogues on global challenges.

Link https://sumansharma59.com.np/g20_y20

VOLUNTEERING

2 MAY 2023 – MAR 2025 KISS (Kalinga Institute of Social Sciences), Bhubaneswar, Odisha, India

Educational Volunteer – "Art of Giving" Initiative

- Tutored 50+ indigenous children in core subjects using creative, engaging teaching approaches
- Developed cross-cultural communication skills, community engagement, and inclusive education
- Addressed educational inequality in indigenous communities through technology-enhanced, culturally responsive teaching methods, improving learning outcomes and opportunities for marginalized students

Link https://sumansharma59.com.np/art_of_giving_volunteer

2023 Rukum-West, Nepal

Volunteer - Human Development and Community Services (HDCS)

- Contributed to the construction of 21 homes for families impacted by the 2023 earthquake in Rukum-West, in collaboration with Human Development and Community Services (HDCS).
- Developed and implemented sustainable construction techniques, promoting long-term resilience against future earthquakes and contributing to environmental sustainability.

Link https://sumansharma59.com.np/hdcs_volunteer

LANGUAGE SKILLS

Mother tongue(s): **NEPALI**

Other language(s):

| | UNDERSTANDING | | SPEAKING | | WRITING |
|----------------|---------------|---------|-------------------|--------------------|---------|
| | Listening | Reading | Spoken production | Spoken interaction | |
| ENGLISH | C1 | C1 | C1 | B2 | C1 |
| HINDI | C2 | C2 | C2 | C2 | C2 |

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

Welcome to my E-portfolio <https://sumansharma59.com.np/> to know more about my certifications, experience, awards and projects.