

MANISH SINGH MAHATO

STUDENT, DEVELOPER, SOCIAL ACTIVIST, PHOTOGRAPHER



CONTACT

-  +977-981-2055778
-  contact@msmahato.com.np
-  anishkushwaha1116@gmail.com
-  Barahathwa, Sarlahi, Nepal
-  manishmahato.info.np

SKILLS

- Research and Development
- Project Management
- Community Service
- Organizational Leadership
- Environmental Conservation & Advocacy
- Developer & Data Analyst
- Photography
- Strong communication
- Teaching & Mentorship
- Event coordinating and fundraising

LANGUAGE

- Maithili (Mother tongue)
- Nepali (Secondary mother tongue)
- Bhojpuri (Community language)
- Hindi (Lingua franca)
- English (Educational language)

PROFILE

I channel my passion and curiosity into impactful projects that bridge education, technology, and social action. Whether as a student, developer, social activist, or photographer, I am committed to exploring new avenues for creating positive change and contributing to the welfare of society.

EDUCATION

12th - Science: School Leaving Certificate (SLC)

GPA:- 11th: 3.73 & 12th: 3.65
National Examination Board (NEB),
Capital College & Research Center (CCRC)-Balkumari, KTM
2024

10th: Secondary Education Examination (SEE)

GPA:- 3.55
National Examination Board (NEB),
Gamvir Samudra Setu Secondary School- Imadol, Lalitpur
2022

RECENT AWARD

- Held Second position at the national-level project exhibition (2024) for making smart ventilator (LCSV), where I competed with a graduate-level student's project organized by Kathmandu University-EEPEX 2024
- People's Choice Award Hounree and Second of NASA Space Challenge-2024, Janakpur Organized by NASO (supported by American Spaces and other space agencies NASA, ISRO..) for developing Agrowtik with the aim of "Leveraging Earth Observation Data for Informed Agricultural Decision-Making"

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EXPERIENCE

• RESEARCH & DEVELOPMENT HEAD

CCRC-The Scientific Circle

2022 - 2024

- Led a team of 25 students in research and development.
- developed 3 agricultural tools and one medical (ventilator) prototype.
- participated in four national science exhibitions (EEPEX, MechTRIX (2), LOCUS), and managed projects and funds for the club.

• CHIEF COMMITTEE HEAD, CO-FOUNDER

Think Big Organization

2023 - PRESENT

- Led 4 special committees of 10+ volunteers and executives of the organization.
- Conducted research on child marriage and child labor to address its roots and methods to prevent it.
- Mentored 900+ kids via 12 seminars, webinars & in-person counseling in collaboration with schools & agencies.
- Prevented 7 child marriages since late 2023.

• FOUNDING DIRECTOR

Everest TechSo Network

2022 - PRESENT

- Oversee 8 executive roles and 900+ youth (volunteer) across the nation.
- Conducted 50+ contests and awareness-based programs focused on technology and sustainability.
- Planted more than 200 trees across public places, such as schools, brick factories, rice mills, etc
- Raised \$8000 with collaboration Active Spark Foundation and Nepal Telecom (Government organization) for IT Fest promoting sustainable technology and solution.

• DEVELOPER, CREATOR & DATA ANALYST

Mold Skill (web)

2022 - PRESENT

- Opened an online educational resource-sharing platform with government services for high school students.
- Manage and update 2K+ practice questions and 100+ school notes prepared by high school teachers.
- Supports 100+ students daily and up to 3500+ students monthly.

• LOCAL AREA REPRESENTATIVE AND COUNCIL ADVISOR

Municipal Water & Irrigation Department, Barahathwa, Nepal

2024 - PRESENT

- Advocated for sustainable irrigation practices among villagers, resulting in improved water management and agricultural productivity.
- Organized and led three local river cleaning campaigns, mobilizing community participation and raising awareness about water conservation.
- Advised the Department of Water Resource Management on policy development, contributing to strategies for efficient and equitable water resource utilization.

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• STATISTICS & GEOMETRY TUTOR

Shree Samudiyek Prathmik School, Kishanpur, Nepal
2023

- Successfully mentored 25 students from 10th-grade students, leading to the first-ever more than 90% pass rate in math.
- Participated in parent and teacher meetings
- deliver updates to the municipality and school administration on the progress of students on the overall math curriculum

• PHOTOGRAPHER

<https://studio.manishmahato.info.np>
2023 - PRESENT

- Capture flora and fauna to spark natural conservation through social media and own platform
- Raised \$2000 for the establishment of a nursery and botanical garden in the village from donation.

KEY PROJECT

• Development of fruit sorting machine (Agrotech)

- Smart Fruit Sorting: Uses color intensity analysis to sort ripe, unripe, and rotten fruits, improving efficiency and reducing waste.
- UV Filtration: Integrates UV technology to clean fruits, ensuring hygiene and extending shelf life.
- Post-Harvest Loss Reduction: Helps reduce fruit wastage and supports sustainable agriculture by minimizing losses.

• Development of Low Cost Smart Ventilator (LCSV)

- Affordable Solution: Designed to be cost-effective, providing a low-cost alternative to traditional ventilators during shortages.
- Smart Sensor-Controlled Airflow: Utilizes sensors to regulate airflow, ensuring consistent support for patients.
- Easy to Use: Intuitive design allows non-medical users, including children, to operate it effectively in emergencies.

• Development of Agrowtik (For NASA Space Challenge 2024)

- Data-Driven Agricultural Solutions: The project integrates NASA's spatial data to create tools that provide farmers with localized, real-time guidance for improved crop planning, weather adaptation, and yield optimization.
- Comprehensive Farming Support System: From sowing seeds to selling produce, the tool offers features such as weather forecasting, water resource management, and market insights to support farmers across every stage of the agricultural cycle.
- Global Vision for Sustainable Farming: Aiming to expand globally, the project focuses on empowering farmers with accessible technology that promotes sustainable practices, enhances productivity, and connects them to markets effectively.