Suman Kunwar

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Portfolio: sumankunwar.com.np
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Experienced researcher and program contributor with a background in software, academic publishing, and sustainability. Skilled in coordinating cross-disciplinary projects, supporting grant proposals, and managing outreach efforts. Passionate about supporting research initiatives through effective program coordination and communication.

SKILLS AND INTERESTS

Core Skills	Program Coordination , Support, Research & Grant Assistance, Document Management, Academic Publishing, Outreach, Stakeholder Communication, Google Workspace, Notion, Trello, Microsoft Office Light technical: Git, Markdown, CMS, HTML
Interests	AI, Climate Change, Sustainability, Entrepreneurship
Communication	English, Nepali (fluent speaker)

PROFESSIONAL EXPERIENCE

Researcher / Program Lead Jan 2024 — Present
D.Waste (Sustainability & EdTech Project) *dwaste.live / Baltimore*

- Coordinated research and outreach activities for an AI-powered waste management tool used in educational campaigns.
- Authored multiple peer-reviewed publications on deep learning and sustainability.
- Managed data collection for a custom image dataset (19,407 images), ensuring labeling accuracy and usability for academic studies.
- Oversaw cross-functional collaboration with developers, researchers, and community partners.
- Contributed to NSF I-Corps program; supported market discovery interviews and reporting.

Instructor & Content Creator Jan 2023 — Present
Udemy *udemy.com / Remote*

- Developed and managed online courses: "Web 101: Building Portfolios" and "Real-World Object Detection: Waste Sorting & Tomato Ripeness", enrolling 5,800+ learners.
- Responsible for student Q&A, curriculum updates, and instructional design.
- Provided technical and instructional support to students.

Frontend Consultant Jan 2022 — Oct 2023
Latana GmbH *latana.com / Remote*

- Partnered with cross-functional teams to plan and implement survey performance strategies.
- Mentored junior team members, facilitating regular meetings and project updates.
- Worked closely with product managers and researchers to manage timelines and deliverables.

Frontend Developer Jan 2019 — Dec 2021
Dalia Research GmbH (Acquired by Purespectrum) *Dalia Research / Berlin, Germany*

- Supported development and documentation of a survey dashboard platform used by researchers and project managers.
- Partnered with UX designers and analysts to transform ideas into actionable features, focusing on user clarity and accessibility.
- Collaborated with QA and backend teams to streamline reporting and data validation workflows.
- Improved internal tools that enhanced survey speed and reliability, supporting broader organizational goals in data collection.

Senior Software Engineer Feb 2015 — Dec 2018
Fusemachines Nepal *fusemachines.com / Kathmandu, Nepal*

- Collaborated on internal platforms used for education, training, and research.
- Participated in sprint planning, QA documentation, and platform testing coordination.

EDUCATION

PGCert in Entrepreneurship, *Coventry University*
GCert in Entrepreneurship, *Deakin University*
Master of Science in Information Technology, *Sikkim Manipal University*
Bachelor of Science in Information Technology, *Sikkim Manipal University*

CERTIFICATIONS

My Green Lab Ambassador	My Green Lab
Waste Management and Circular Economy	UNITAR

PUBLICATIONS

Published

- Kunwar, S. (2024). Managing Household Waste Through Transfer Learning. *Industrial and Domestic Waste Management, 4*(1), 14–22. https://doi.org/10.53623/idwm.v4i1.408
- Kunwar, S. (2023). MWaste: An app that uses deep learning to manage household waste. *Clean Technologies and Recycling, 3*(3), 119–133. https://doi.org/10.3934/ctr.2023008
- Kunwar, S., & Simeon Alade, A. (2023). Strategies in JPEG compression using convolutional neural network(CNN). *International Journal of Research Publication and Reviews, 4*(7), 1024–1032. https://doi.org/10.55248/gengpi.4.723.48514
- Kunwar, S., (2024). Annotate-Lab: Simplifying Image Annotation. *Journal of Open Source Software, 9*(103), 7210. https://doi.org/10.21105/joss.07210
- Kunwar, S., & Alade, A. S. (2024). Deep learning in waste management: A brief survey. *International Journal of Complexity in Applied Science and Technology, 1*(2), 125–141. https://doi.org/10.1504/IJCAST.2024.143879
- Kunwar, S., Owabumoye, B. R., & Alade, A. S. (2025). Plastic Waste Detection Using Deep Learning: Insights from the WaDaBa Dataset. *Industrial and Domestic Waste Management, 5*(1), 1-11. https://doi.org/10.53623/idwm.v5i1.580

(Full list available upon request)

ACTIVITIES

NSF I-Corps AI/Robotics Cohort	Apr 2025
MEIA Winter Pre-Accelerator Program Cohort	Mar 2025
Learn JavaScript : Beginners Edition, Author (Leanpub Publication)	Jan 2023

AWARDS & RECOGNITION

Maker of Deep Waste App, Top 10 Product of the day Recipient	Product Hunt
People Choice Award Recipient	Code for Humanity Open Hack Stockholm
2019 Developer Circles from Facebook Community Challenge, Regional - Third Place Recipient (Asia Pacific)	Facebook
How Entrepreneurs Advance Clothing Reuse	Network for Business Sustainability
Mom's Store Nepal: Kidswear-centred thrift store aims at helping working-class parents	Online Khabar
Mom's Store Nepal: Promoting Thrifting Culture via Technology	New Business Age

REFERENCES

Available upon request.