

Tapaswini Sharma

IT Graduate | Analog Astronaut

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Professional Summary

Recent IT graduate and Analog Astronaut with extensive experience in space science research, science communication, and data science. Proven history of leading innovative projects in space habitation, healthcare in space, and AI applications for climate science, with a strong commitment to advancing space exploration and interdisciplinary research.

Skills

Technical Skills: Data Analysis, ML (Python, SQL), Space Habitat Design, AI Application for Climate Science

Research and Analysis: Space Policy Research, Space Healthcare, Data Interpretation

Professional Skills: Leadership, Science Communication, Problem-Solving, Team Collaboration, Critical Thinking

Specialized Knowledge: Space Law, Space Habitability, Mission Planning, Healthcare in Space

Work Experience

Blue Marble Space Institute of Science / Research Associate, Visiting Scholar

JUNE 2024 - AUGUST 2024, WASHINGTON, USA

Conducted research on effective science communication under the mentorship of Dr. Graham Lau. Explored multi-platform outreach strategies, presenting findings on the future of science communication in space exploration.

The Space Court Foundation / Research & Communications Intern, Space Court Advocate

OCTOBER 2020 - OCTOBER 2022, PENNSYLVANIA, USA

Conducted research on space law fundamentals, including contributions to foundational projects like The Big Book of Space Law. Presented project on Andrew G. Haley at the International Astronautical Congress, solidifying expertise in legal frameworks and policy analysis in space. Managed communications for educational outreach, later promoted to Space Court Advocate due to excellence in advocacy and outreach.

Habitat Marte / Analog Astronaut

DECEMBER 2021, BRAZIL

Completed a fully funded, intensive analog mission focused on the design of a self-sustaining space habitat on Mars with a focus on healthcare needs. Contributed ideas on radiation shielding and habitat sustainability, presented in collaboration with The Brazil Space Society. Gained hands-on experience in mission planning, technical problem-solving, and resilience in extreme environments.

The European School For Leadership Development / Research Intern

September 2023, ESTONIA

Researched international relations and AI's role in fostering cross-border collaboration, with a focus on space science applications. Presented on AI in international relations, strengthening insights into leadership dynamics and global cooperation.

Elucidate AI / Data Science Intern

OCTOBER 2020 - DECEMBER 2020, CAPE TOWN, SOUTH AFRICA

Analyzed large datasets (40,000+ rows) and built prediction models for a real estate developer, achieving 80% accuracy. Refined skills in data preprocessing, trend analysis, and predictive modeling within real-world scenarios.

The Jacques Rougerie Foundation - Institute in France / Youth Ambassador

OCTOBER 2020 - PRESENT, FRANCE

Education

Bachelors of Science in Information Technology

SVIM, INDORE | 2020 - 2023,

Astronaut in Training

Janet's Planet Online Astronaut Academy, TEXAS, USA | 2020-2022

Engaged with astronauts, scientists, and engineers on fundamentals of space science, with emphasis on practical exploration skills..

Data Science Certification

iXPERIENCE, CAPE TOWN, SOUTH AFRICA | 2020

Recognized as a top-performing student in data science, with extensive training in data analysis, prediction models, and hands-on projects.

Awards and Experiences

Global Finalist - NASA Space Apps Challenge 2024

Speaker at GLEX 2025 (Abstracts selected for both Oral and Poster Presentations)

Selected by Space Foundation to attend the Space Symposium 2025

Selected for the World's Biggest Analog Mission Training

Selected for the Bertelsmann Next Generation Tech Booster program 2024-25

LeadHERship Ambassador Fellow 2025

Scholarship Recipient – Space Studies Scholarship by the Organization of Proliferation of Space Studies, 2020.

NASA Honorable Mention – For Space Settlement Projects, awarded twice (2015, 2017).

Speaker – Humans to Mars Summit 2020; Space Habitat Event (2022).

Hackathon Leader – Led team AEGIS in the Asclepios International Hackathon, Switzerland, presenting on radiation-resistant technology for space.

International Competitions – Judged Cities in Space International Space Settlement Competition (2020, 2021).

Keynote Speaker – Delivered keynote at the Patrika Event, presenting alongside politicians and industry leaders (2018).

Published Articles - Contributed to American Institute of Aeronautics and Astronautics newsletter and Journal of Women's Health, USA.

Conference Abstract Radiation Shielding and Healthcare Habitat on Mars, published in Space Habitat Event Abstract Book (2022).