

# Solar Powered Weather Station

Usha Mittal Institute of Technology, SNDT Women's University, Mumbai

May 13, 2025



# Installation of Solar Powered Weather Station

- ▶ **Date:** 2<sup>nd</sup> January 2023
- ▶ **Location:** Usha Mittal Institute of Technology (UMIT), SNDT Women's University, Juhu Campus, Mumbai
- ▶ **Supported by:** City University of New York (CUNY)
- ▶ **Funding Agency:** National Science Foundation (NSF), USA
- ▶ **Presided by:**
  - ▶ Hon'ble Vice Chancellor Prof. Ujwala Chakradeo
  - ▶ Registrar Dr. Vilas Nandavadekar
- ▶ **CUNY Delegates:**
  - ▶ Prof. Neal Philip
  - ▶ Prof. Brian Van Hull
  - ▶ Prof. Paramita Sen



## Weather Station: Image Gallery (1/2)



Delegates from CUNY and SNDTWU faculty members witnessing the installation of the Solar Powered Weather Station at UMIT rooftop on 2nd January 2023.



Hon'ble Vice Chancellor Prof. Ujwala Chakradeo unveiling the commemorative plaque in the presence of CUNY professors and university officials.

## Weather Station: Image Gallery (2/2)



Group photo of UMIT and CUNY students and faculty members in front of a vibrant rangoli designed to celebrate Indo-US academic collaboration.



CUNY delegates, SNDTWU officials, and students gathered near a thematic rangoli symbolizing cultural unity and the spirit of research collaboration.

# Weather Station: Image Gallery (1/2)



Students engaging with educational posters and documentation near the Weather Station kiosk, initiating experiments and hands-on learning.



Faculty and students interacting with sensor data and conducting early-stage experiments that culminated in a research paper presented at an international conference in Athens, Greece.

# Papers Published



Figure: 2nd World Conference on Communication Computing (WCONF) Raipur, India. Jul 12-14, 2024

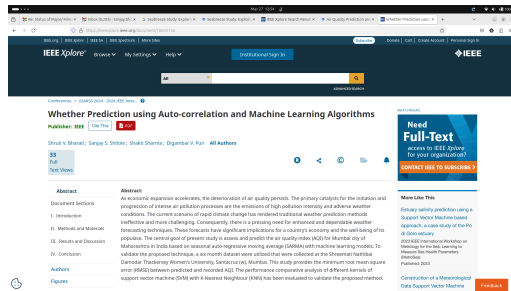


Figure: IGARSS -7-12 July, 2024 Athens, Greece

# Papers Ready for Publication

## Impact of Air Quality and Physical Activity on Cognitive Performance: A Study in Digital Marketing Education

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**Figure:** Conference paper prepared for submission

1 Towards Effective Air Quality Prediction in Mumbai's Coastal  
2 Regions: A Data Analytics Framework

3 Aashish Jha<sup>1</sup>, Andrea Alvares<sup>2</sup>, Shrikrishna Umbare<sup>3</sup>,  
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**Figure:** Journal manuscript ready for submission

## Weather Station: Image Gallery (2/2)



General discussion between CUNY students and UMIT researchers on how effectively weather station data supports climate research.



UMIT students demonstrating the sensors to CUNY visitors, showcasing the suitability of the sensors for climate studies.



# Thank You for Your Attention!

