Harnessing Data Science for Climate Resilience:
A Workshop on Policy-Driven Analysis in Nepal

3D SOUTH ASIA:
DIGITALLY DRIVEN
DEVELOPMENT

SARD 3D South Asia
NOVEMBER 29, 2023
11 AM - 3 PM (Nepal Standard Time, GMT+5:45)

A growing number of countries, especially in Asia, are using data to design policies, respond to crises, and model future scenarios. Given its growing importance for informing decision-making, having accurate, high-quality, and trustworthy data is more crucial than ever. This training session, organized by the Asian Development Bank's South Asia Regional Department (SARD), aims to build data capacity of and introduce data solutions to climate policy stakeholders in Nepal.

This training is structured from the perspective of data practitioners and combines industry best practices with the application of data solutions in climate policy analysis.

Reserve your seat by registering here Registration link . If you have any questions or require additional information, feel free to reach out to Avani Dixit at adixit1@adb.org

Introductory Remarks

JAZIRA ASANOVA
Principal Coordination Specialist
South Asia Regional Department
Asian Development Bank (ADB)

Opening Remarks

AVANI DIXIT
Senior Climate Change Specialist
Asian Development Bank (ADB)

Trainers

ROBIN WANG
Managing Partner

Data Whale

YUQI LIAO
Data Whale

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TIME	SESSION DESCRIPTION
11:00 - 11:15 15 minutes	Overview: Welcome and Introduction to the Workshop Objectives • Introductory Remarks: Jazira Asanova, Principal Coordination Specialist, ADB • Opening Remarks: Avani Dixit, Senior Climate Change Specialist, ADB
11:15 - 12:00 45 minutes	Training Module Visualization of Climate Challenges and Community Contexts • Overview of data visualization techniques to involve user interaction and communicate climate insights • Data visualization and climate analysis - goals, techniques and development considerations
12:00 - 12:45 45 minutes	Training Module Improving Enhancing the Evidence Base for Climate Analysis in Data-Scarce Environments • Introduction of data mining and deep learning solutions to create analysis-ready geospatial datasets • Overview of Data Gaps for Climate Analysis, Summary of Deep Learning Advances
12:45 - 13:15 30 minutes	Lunch Break
13:15 - 14:00 45 minutes	Training Module Application of Data Solutions to Inform Adaptation Decisions Under Climate Risk Uncertainties • Review of the data-based methodologies to quantify climate uncertainties and inform adaptation decisions • Decision Framework for Adaptation Investment under Climate Uncertainties
14:00 - 14:45 45 minutes	Training Module Recent Advances in Data Science and Implications for Policy Practitioners • Break down of the field of Artificial Intelligence, and discussion of recent progress in AI sub-fields and the implications • Trends in object detection algorithms, large language models (LLM), and transferred learning, and what they mean for policy analysis
14:45 - 15:00 15 minutes	Wrap-Up Key Takeaways and Workshop Closure