



MINI-SCHOOL

**NITheCS**

National Institute for  
Theoretical and Computational Sciences

# Machine Learning Applications in Climate Finance

Dr Kamleshan Pillay (Stellenbosch University)

*Attend online: Wed 9, 16, 23 & 30 April 2025 @ 14h00-15h00 SAST*

## ABSTRACT

This mini school aims to provide participants with an overview of climate finance in the African context, innovative climate finance instruments that can be used to bridge the financing gap, applications of machine learning and AI to climate finance problems, and a detailed case study of a machine learning problem applied to the regulation of green bond issuances.

## BIOGRAPHY

Kamleshan Pillay is a postdoctoral researcher at NITheCS at Stellenbosch University. Kamleshan has worked in the climate finance space for the past 12 years, acting as a consultant for a host of public and private financial institutions and national governments. He completed his PhD degree in Environmental Science at the University of the Witwatersrand in 2024. His current research focuses on adaptation finance, climate risk management, stress testing and financial instrument design.



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