

PROJECT DETAILS

Project Title:

Integrating nature-based carbon sequestration into asset pricing model

Project Summary:

This research project seeks to integrate forest ecosystem carbon sequestration into asset pricing models, enhancing financial tools with environmental valuation. It aims to refine asset pricing mechanisms by incorporating the carbon sequestration potential of forests, offering a novel approach to valuing natural assets. The project's significance lies in bridging ecological sustainability with economic theory, influencing investment strategies towards environmentally responsible practices. Expected outcomes include a validated model for asset pricing that accounts for carbon sequestration, contributing to a greener economy and providing a template for future research in environmental finance.

Preferred Applicant Skillset:

We are looking for a motivated PhD candidate who possesses proficiency in the Python programming language for advanced analytics, including familiarity with standard libraries such as Scikit-Learn and Pytorch for machine learning applications. A suitable candidate should be able to demonstrate a robust understanding of economic theory and modeling, particularly in the context of asset pricing. A proven record of relevant scholarly publications in esteemed journals is considered a valuable asset.

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