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Research Area: Urban Digital Twin, Planning support system



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Pradeep Alva is a PhD student at the Department of Architecture, focused on the topic of Urban Digital Twins for City Energy Systems. He is developing a 3D web map application which will serve as a user-experience dashboard for decision makers involved in greenhouse gas (GHG) emission mitigation and decarbonizing initiatives for cities. He also works as a Research Associate at the Future Resilient Systems (FRS) programme, Singapore-ETH Centre (SEC).

He is part of the course development team of the NUS-EdX professional certificate programme - 'Spatial Computational Thinking', which teaches the theoretical knowledge and practical skills required for leveraging computation to manipulate various types of spatial data. He has performed complex GIS models and designed various geospatial urban planning decision-making frameworks. He has developed a set of tools that automate the geoprocessing and assessment workflows for city planners.

He holds a master's degree (MSc) in Integrated Sustainable Design from National University of Singapore and bachelor's degree in Architecture (BArch).