

# Rutvik Deshpande

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EDUCATION	<b>National Institute of Technology (NIT), India</b> Bachelor of Architecture (B.Arch)	'19 - Present
PROFESSIONAL EXPERIENCE	<b>Digital Blue Foam, Singapore</b> Machine Learning Design Engineer Associate Data Engineer Research Intern	'22 - Present '21 – '22 '20 – '21
	<b>S. N. Pingle Consultants, Pune, India</b> Architectural Intern	'20
WORKSHOPS	<b>Synthetic Machine Creation for Net-Zero Structural Design, DigitalFUTURES 2022</b> <b>XD Urban Prototyping with Digital Blue Foam DigitalFUTURES 2021</b> <b>Personalized Generative Design CAADRIA 2021</b>	'22 '21 '21
INVITED TALKS	"Data Driven Sustainable Building Design" at <a href="#">AI in AEC Conference</a> "Machine Learning for Better Architectural Design" at <a href="#">International Building Design Competition (IBDC) '21</a>	'22 '21
AWARDS	"Young CAADRIA Award", <a href="#">CAADRIA '23</a> "Supercomputing Net-zero Structures", High-Performance Computing Innovation Challenge for the Environment (NSCC), 2nd Runners-up	'23 '22
CREDENTIALS	<b>LEED Green Associate</b> <i>Green Business Certification Inc. (GBCI)</i>	'22
SKILLS	<b>Frontend</b> – HTML, CSS, JavaScript, THREE.JS, TensorflowJS <b>Backend</b> – NodeJS, Google Cloud Platform <b>Data Science</b> – R, Python <b>Graphics</b> – Adobe CS, Figma, P5.JS <b>Mapping</b> – Qgis, Mabox, Leaflet, deckGL <b>3D Modelling</b> – Rhino3D, Grasshopper, Revit, Blender, SketchUp	

*Journal Articles and Conference Proceedings*

- **Deshpande, R.**, Patel, S., Weijenberg, C., Nisztuk, M., Corcuera, M., Luo, J., Zhu, M., 2023, Generative Pre-Trained Transformers for 15-Minute City Design
- **Deshpande, R.**, Nisztuk, M., Cheng, C., Subramanian, R., Chavan, T., Weijenberg, C., & Patel, S. V. (2022). Synthetic Machine Learning for Real-time Architectural Daylighting Prediction. 313–322. <https://doi.org/10.52842/conf.caadria.2022.1.313>
- Cheng, C., Li, Y., **Deshpande, R.**, Antonio, R., Chavan, T., Nisztuk, M., Subramanian, R., Weijenberg, C., & Patel, S. V. (2022). Realtime Urban Insights for Bottom-up 15-minute City Design. 435–444. <https://doi.org/10.52842/conf.caadria.2022.1.435>

*Scientific Whitepapers*

- Cheng, C., Hsain, H. E., **Deshpande, R.**, Nisztuk, M., Chavan, T., Patel, S., & Weijenberg, C. (2022). DBF Urban Insights: Realtime 15-Minute City Neighbourhood Analysis System.
- Kondratenko, A., Tam, M., Preisinger, C., **Deshpande, R.**, Bachtiar, N., Corcuera, M., Chavan, T., Weijenberg, C., Patel, S., & Nisztuk, M. (2022). Synthetic Structural Generation for Early-Stage Carbon Evaluation