NEXUS: From Machine Learning to Manufacturing

NEXUS by ENCODE Studio explores the fusion of machine learning, generative design, and additive manufacturing to create intricate, morphing geometries showcased during Cairo Design Week. Using Rhino and Grasshopper, the team translated AI-generated patterns into full-scale 3D-printed architectural elements, redefining possibilities for design and fabrication.

Predictive Precision in 3D Printing Through AI

Neelam Chellani’s research focused on enhancing shrinkage and deformation prediction in 3D printing through cGANs, delving into machine learning’s ability to forecast deformation in 3D-printed objects.

“Diffusions in Architecture: Artificial Intelligence and Image Generators”

A groundbreaking exploration into the transformative realm of Generative AI models, deciphering their profound impact on architectural design and aesthetics.