



TED UNIVERSITY
CMPE 491 Senior Project
Project Proposal
“MediVerse”

Spatial Computing for Immersive Medical Education

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Project Page URL: <https://mediverse.framer.website/landing>

Project Description

MediVerse is an interactive spatial computing application designed to transform how medical students and professionals learn through realistic, immersive simulations. By using mixed reality technology, the system projects 3D anatomical models, surgical procedures, and patient scenarios into the user's environment, allowing learners to explore, manipulate, and engage with medical content in ways that go far beyond traditional methods. MediVerse bridges the gap between theoretical knowledge and hands-on practice, thus offering a risk-free environment for skill development.

Overall, by integrating combining spatial computing with pedagogical design, the project aims to enhance retention, critical thinking, and clinical reasoning, ultimately redefining the standard for medical simulation-based learning.