



# Departmental Colloquium Electrical and Computer Engineering

## AI Solutions for a Variety of High-Impact Problems in the Healthcare Domain

**Tuesday, April 9, 2024**  
**2:00 pm – 3:00 pm**  
**Olin 202**

Reception to follow in Olin 204  
3:00 pm – 3:30 pm



**Dr. Priya Deshpande**

brain injury  
not publicly shared due to the complexity of  
nt. If Generative Adversarial Networks (GANs)  
k to any singular human patient, this generated

*Brain Metastases Identifications using AI:* Brain metastases (BMs) represent a significant burden in oncology, with up to 40% of cancer patients developing metastases in the brain. Accurate detection and segmentation of BMs from MRI images are critical for treatment planning, monitoring disease progression, and assessing treatment response. We will talk about an AI framework that detects and segments BMs from MRI imaging data.

Dr. Priya Deshpande is Assistant Professor at Electrical and Computer Engineering department at Marquette University. She is a senior member of IEEE and her research focuses on unstructured data integrations, natural language processing, and artificial intelligence.

This talk will be presented by Dr. Priya Deshpande, along with members of the DiCDSL lab – Luke Richmond, Shamiha Binta Manir, and Omar Farghaly.