Amber’s Script of Part I problem

Hello, and thank you for watching this video. We are a team of students from QUT with a strong focus on using data and modelling to solve real healthcare challenges.

Our goal was to build methods that are efficient, interpretable, and ready for integration into clinical workflows.

The project is split into two parts: Part I focuses on brain MRI analysis, and Part II applies similar techniques to image-based feature extraction. Let’s begin with Part I.

In this part, we worked with brain MRI data to help turn complex scan signals into useful clinical information. Using a technique called Diffusion Tensor Imaging, we analysed how water moves through brain tissue—revealing early signs of stroke, tumors, or neurodegenerative disease.

Our method bridges the gap between raw imaging and clinical decision-making, helping doctors detect problems earlier and with more confidence.

I’ll now hand over to [Name] to show how our team brought this to life.