Amber’s Script of Part I problem

Hello, and thank you for the opportunity to present.

Our team explored how diffusion-weighted MRI can be leveraged to extract meaningful insights about brain tissue health.

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.

We focused on estimating the diffusion tensor: a mathematical model that captures how water molecules move through the brain.

This movement is key to identifying structural changes in neural tissue, it’s vital for diagnosing conditions like stroke, tumours, or neurodegeneration.

What makes this powerful is not just the insight we gain, but how we extract it from raw, complex imaging data.

Our process turns signal variations into diagnostic maps, paving the way for smarter, earlier, and more accessible detection tools in digital health. 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.