SPRINT RERTOSPECTIVE 1

What Went Well	What Could Be Improved	Action Items / Improvements for Next Sprint
Successfully set up the **project environment** and collected the **gait video dataset**.	**Initial model showed signs of overfitting**, indicating the need for better regularization and data augmentation.	Optimize frame selection strategy (e.g., **uniform stride sampling**) to reduce data volume.
Implemented **frame extraction and pose estimation** using **MediaPipe**, which effectively generated joint keypoints.	**Training time was high** due to unoptimized data pipeline and large frame sequences.	Use **cross-validation** and apply **dropout/early stopping** to mitigate overfitting.
Built the **initial LSTM-based model** architecture and trained it on the extracted features.	Label imbalance between Normal and KOA severity levels caused **biased predictions**.	Explore **data augmentation** techniques for increasing dataset diversity.
Achieved preliminary classification results for KOA severity with reasonable accuracy.	Limited variation in gait videos affected the **generalizability of the model**.	