BrainGNN Architecture for Pain Classification

fMRI Data (116 ROIs) → Graph Construction → MyNNConv Layer 1 / MyNNConv Layer 2 / MyNNConv Layer 3 → TopK Pooling → Feature Fusion → Classifier (MLP) → Pain/No-Pain Prediction
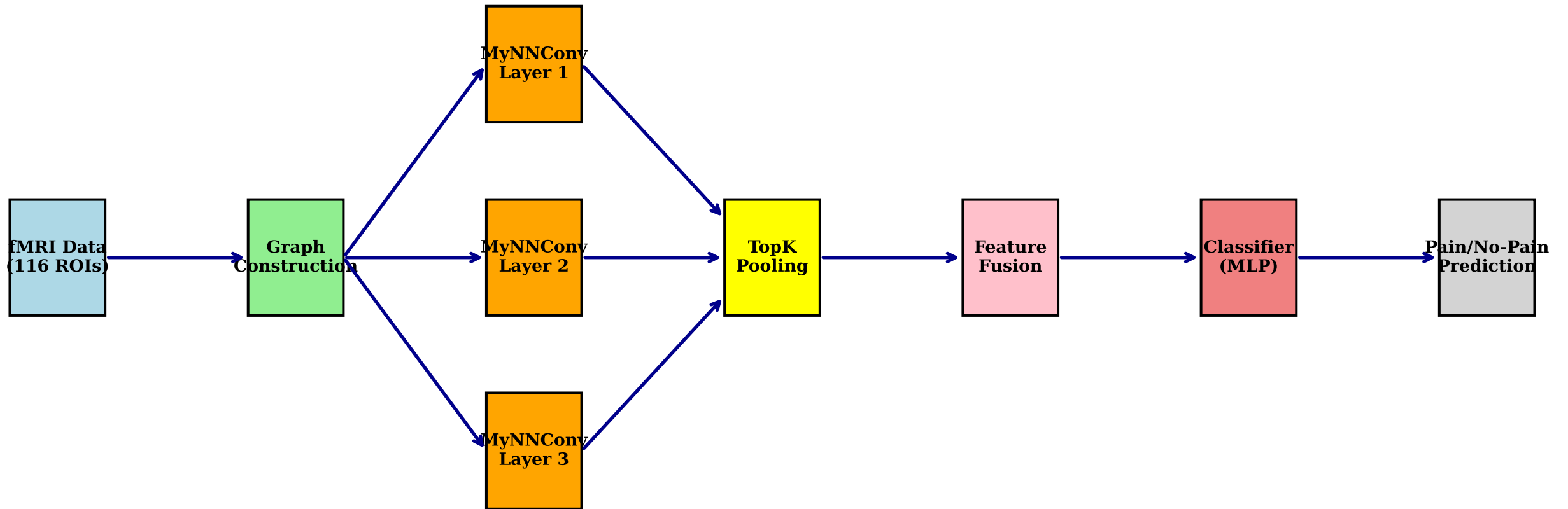
98.7% Classification Accuracy