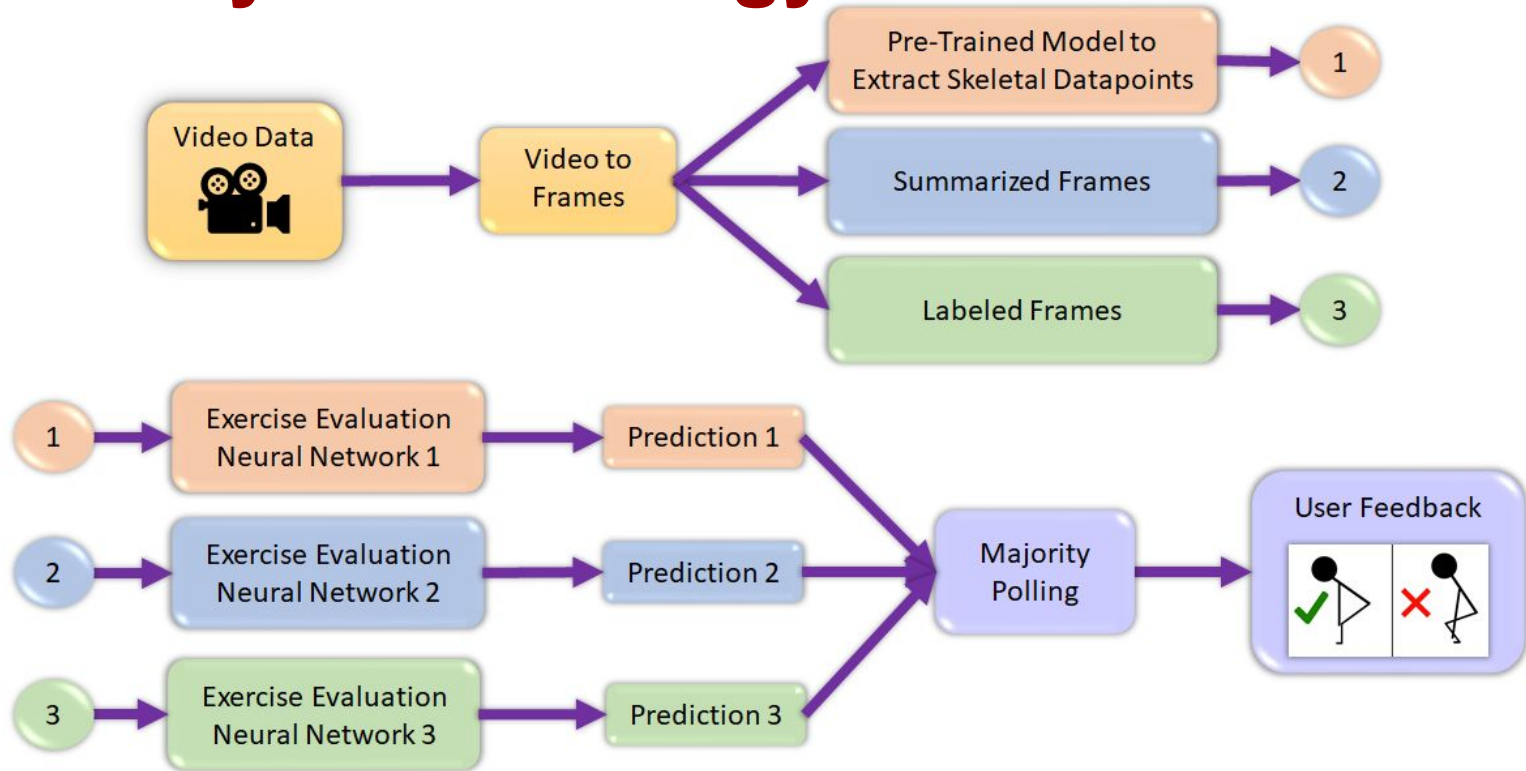




FormBuddy Methodology



Results



- Fully functional iPhone/Android application that classifies Bench Press as 'good' or 'bad'
 - Deployed locally
- Model Accuracy
 - Used a dataset comprising of 1300+ videos
 - Achieved test accuracy of 75-80% on individual models
 - Majority polling accuracy was lower than individual models

Future Scope/Improvements



- Improve model accuracy
 - OpenPose gives correct data approximately 90% of the time
 - Take more training videos with different people, location, angles
 - Modify individual models to better utilize majority polling
- Expand to more compound exercises
 - Deadlift
 - Squat
- Add camera functionality to app
- Exercise classification & Real time feedback
- Gamification (Point based system for reps/sets and sharing between users)

CSCI599 - FormBuddy



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