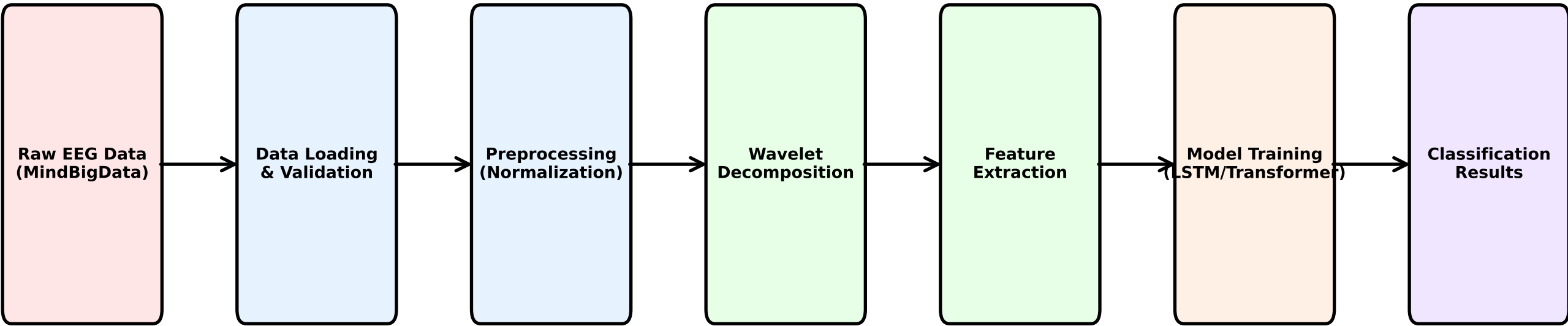


EEG Signal Processing Pipeline



- 14-channel EEG
- 128 Hz sampling
- Digit 6 vs 9

- Format validation
- Quality checks
- Balance classes

- Length normalization
- Amplitude scaling
- Artifact removal

- Daubechies-4 wavelet
- 4 decomposition levels
- Multi-resolution

- Energy features
- Statistical moments
- Frequency bands

- Deep learning
- GPU acceleration
- Cross-validation

- 76% accuracy
- Confusion matrix
- Performance metrics