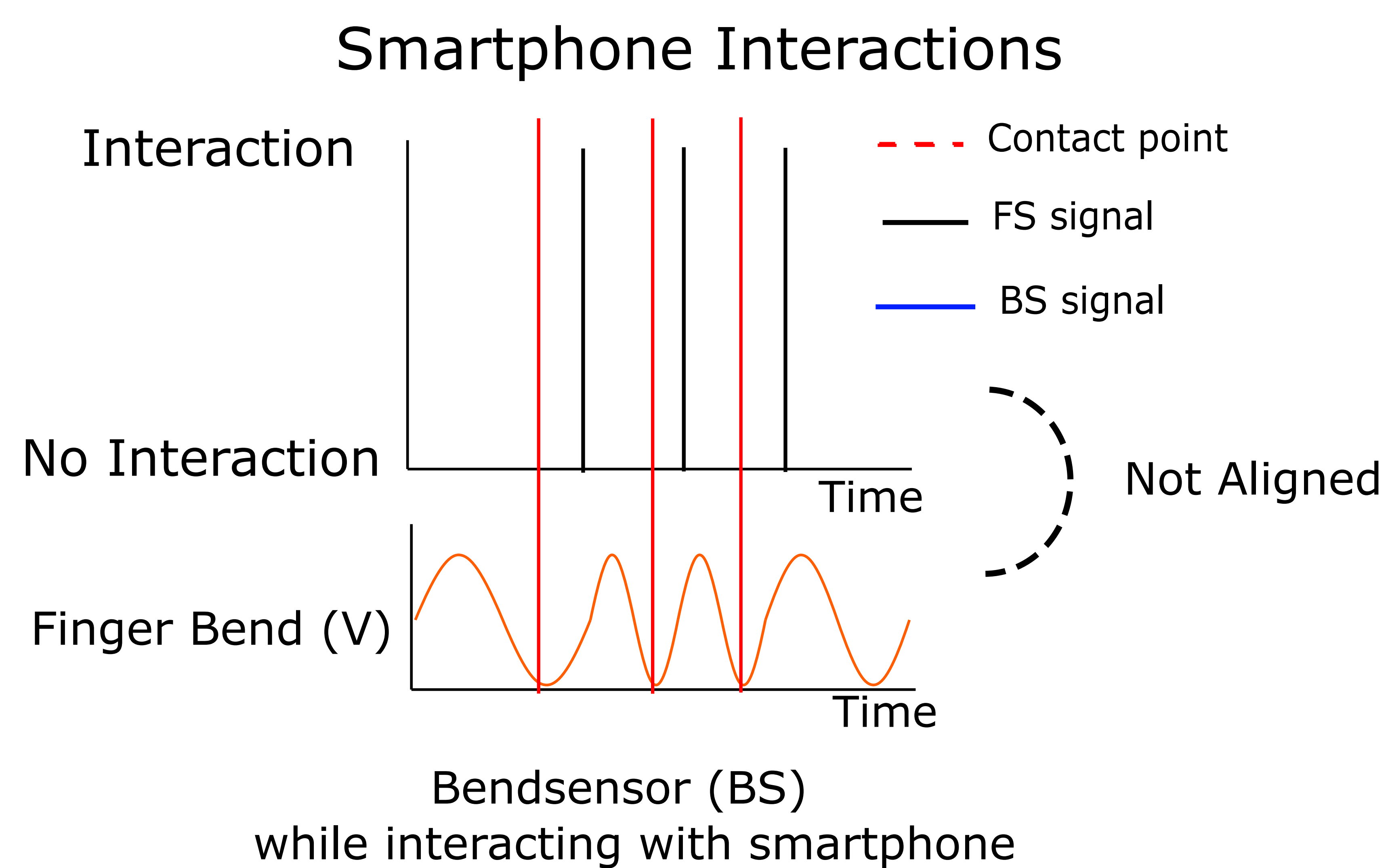
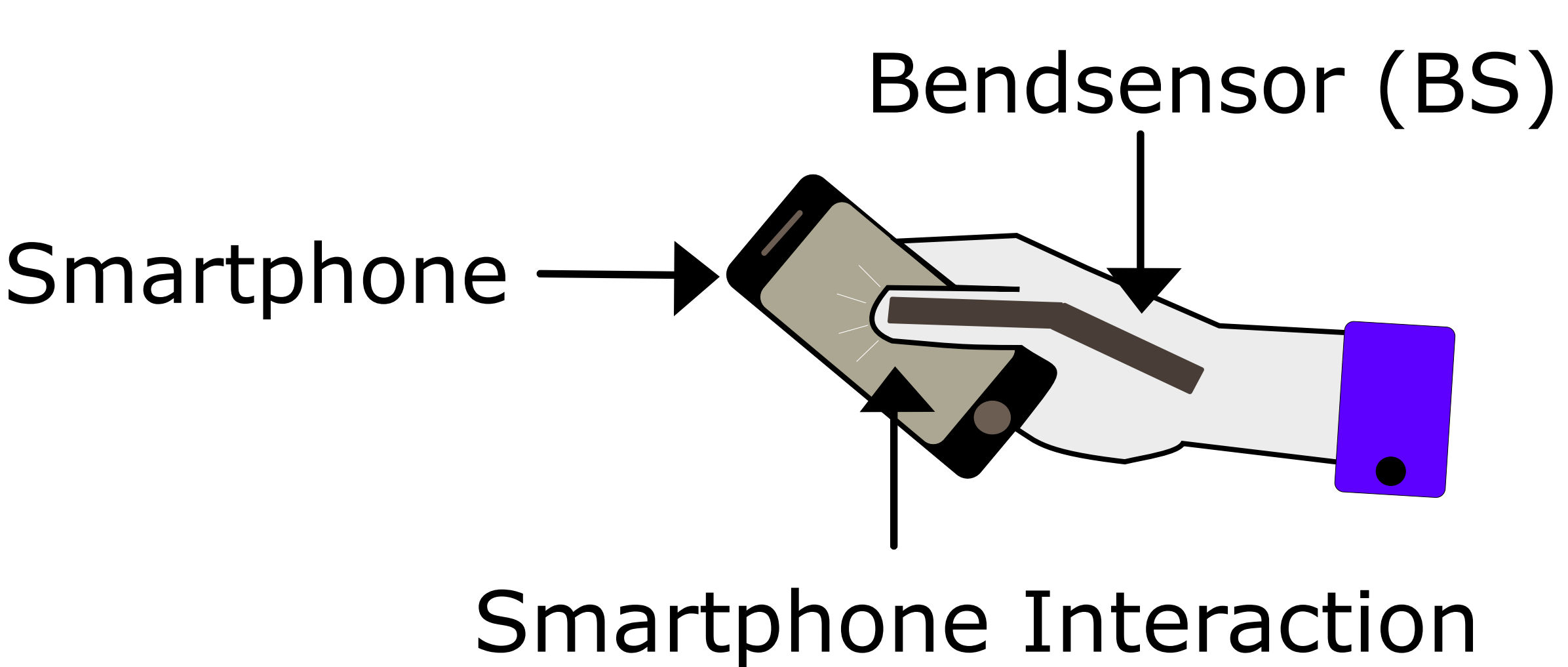
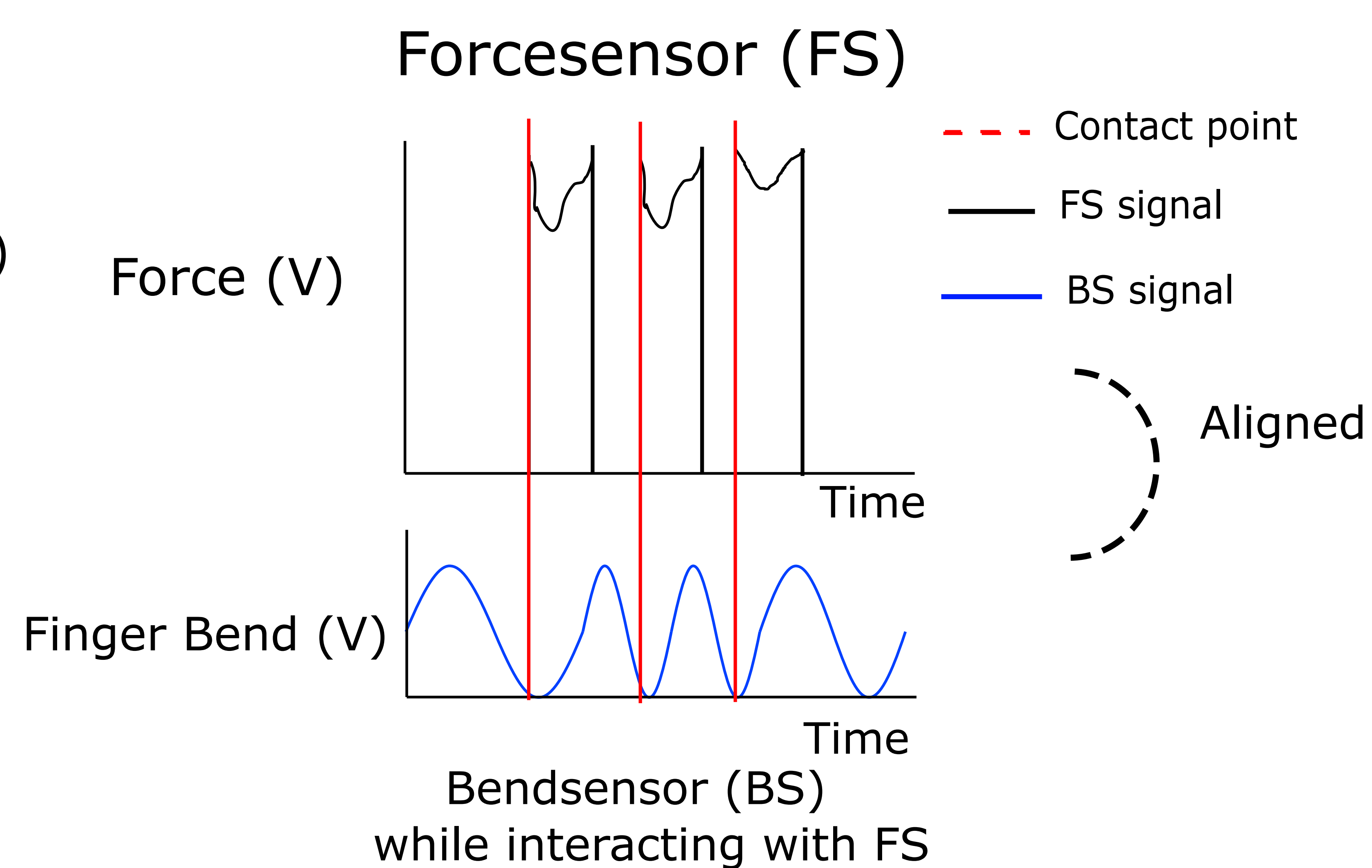
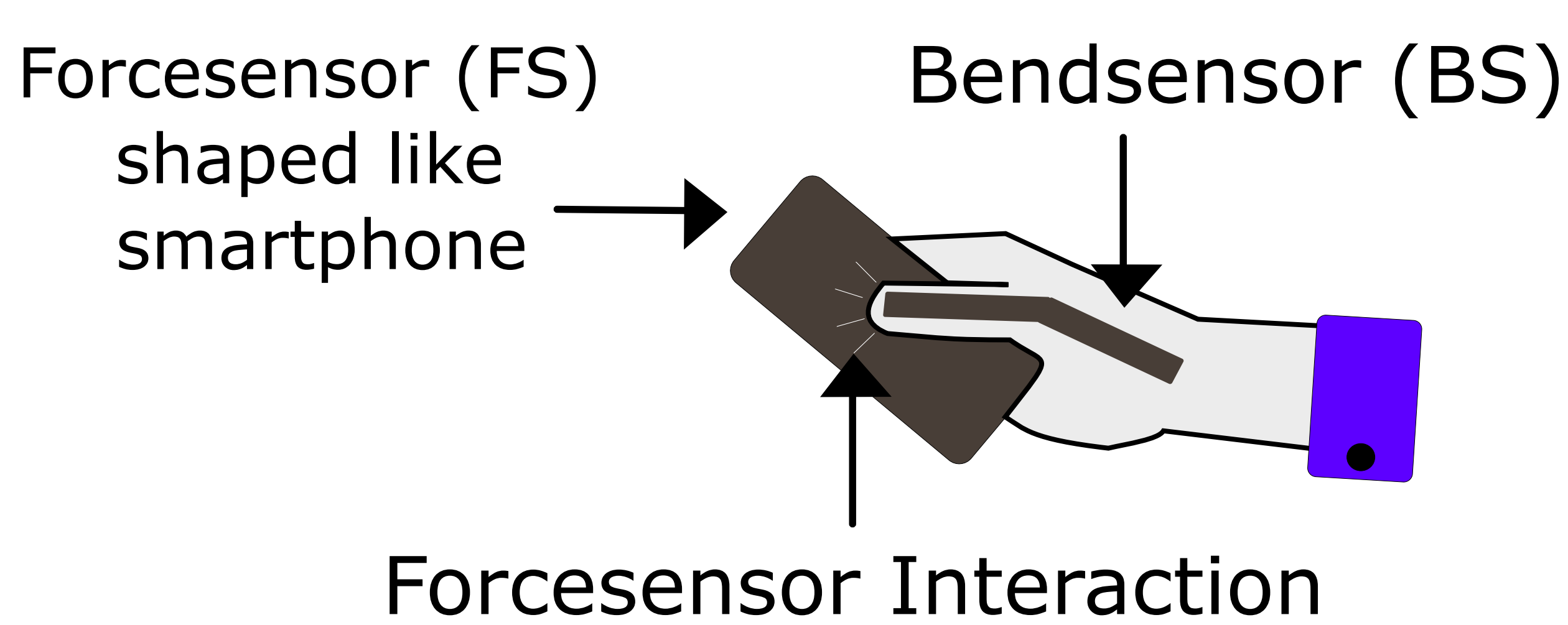


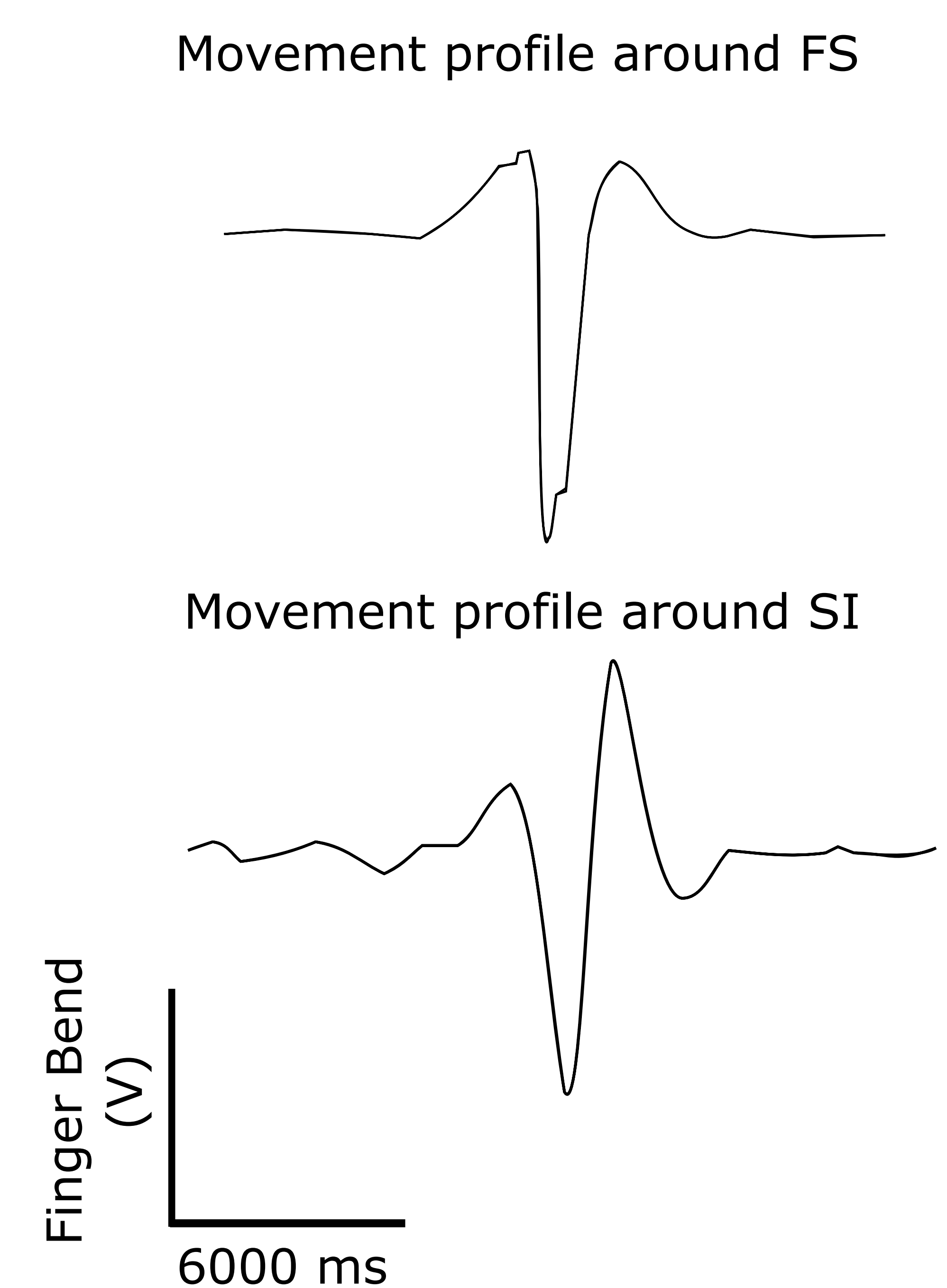
## A.1 Clock alignment problem



## A.2 Ground truth alignment

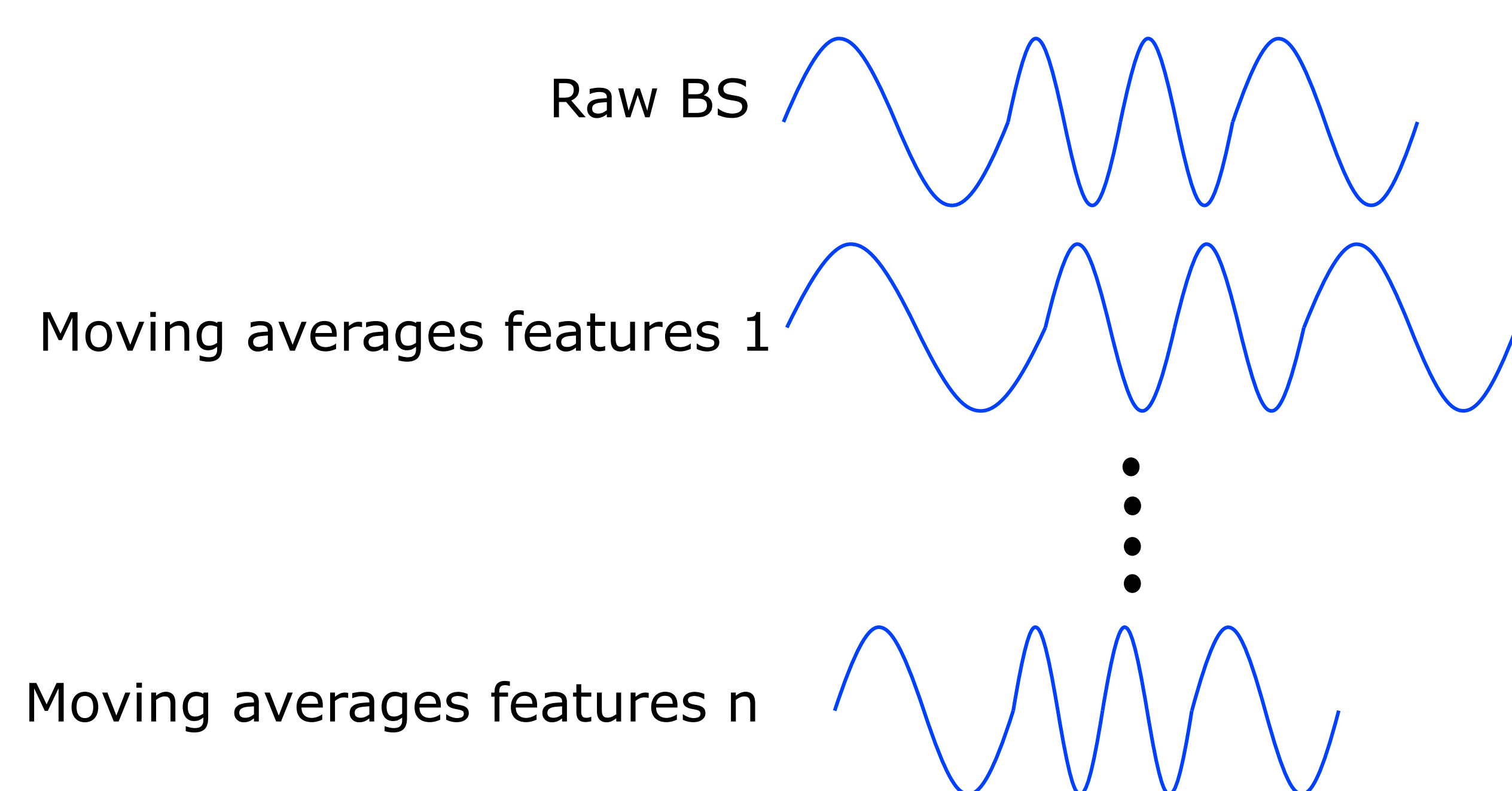


## A.3 Movement profiles around Smartphone and Forcesensor Interactions

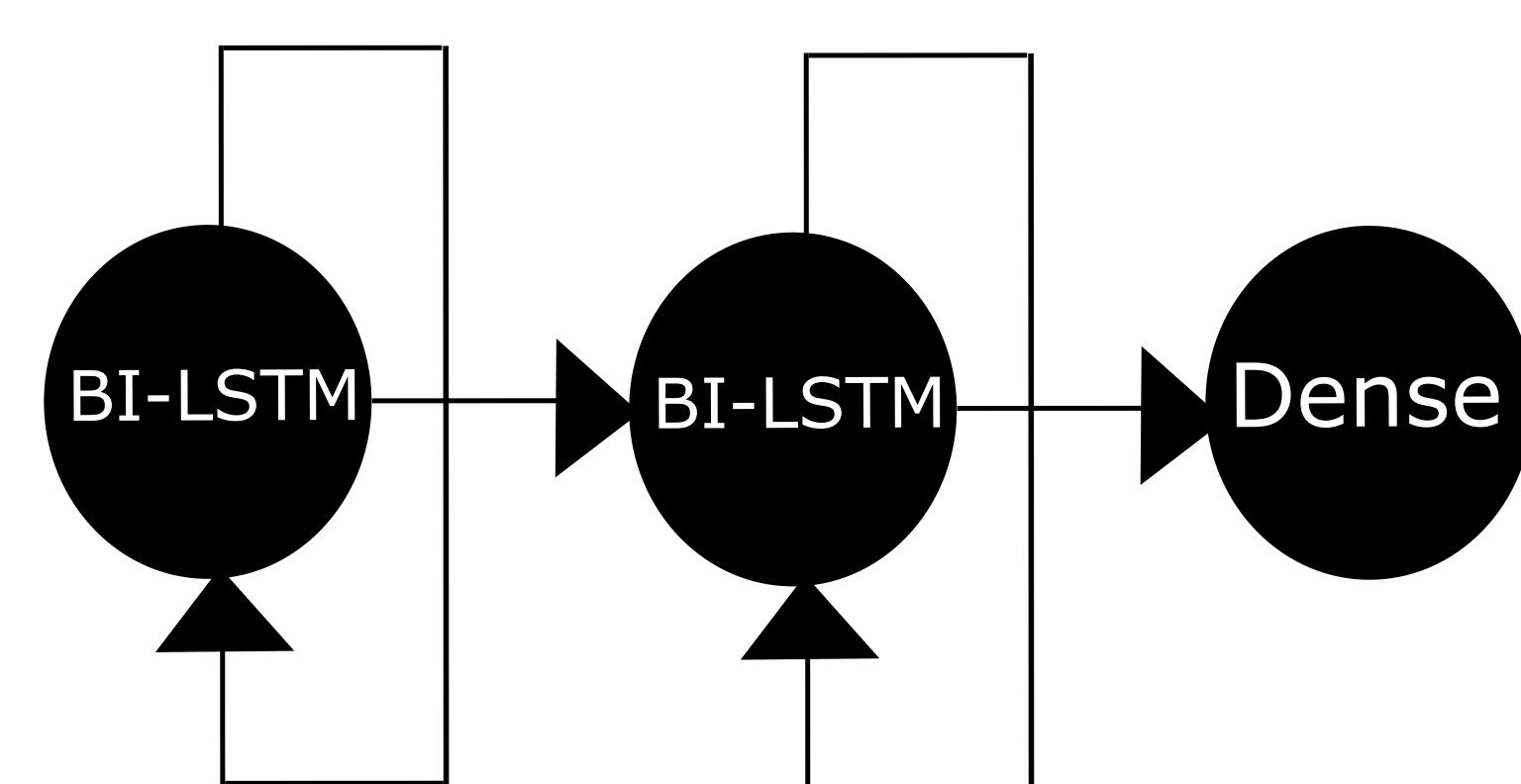


## B. Model Training

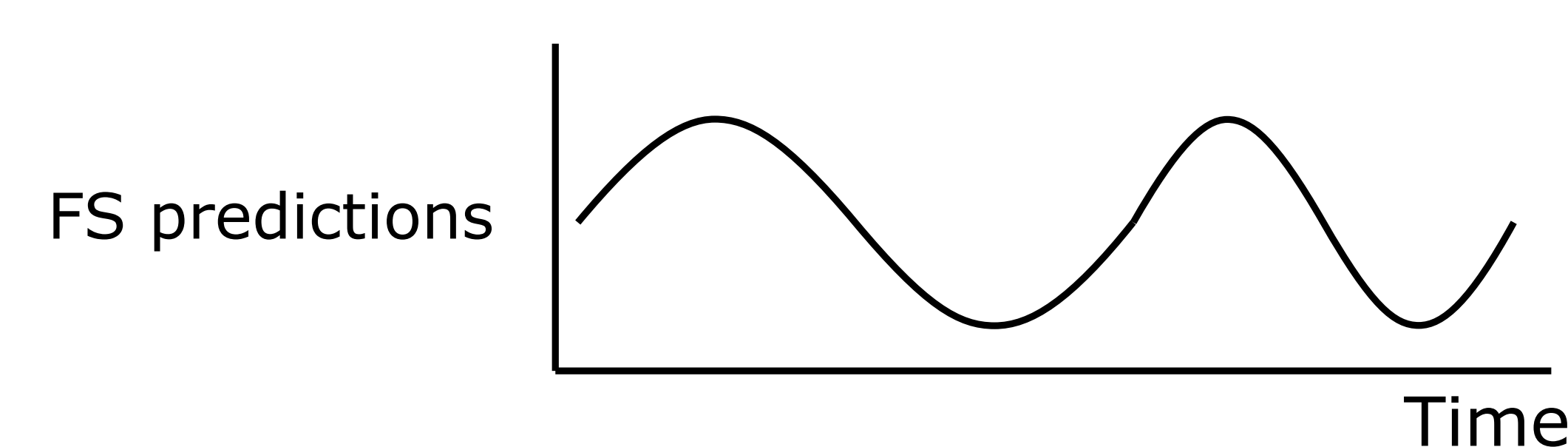
Input: BS and Moving Averages extracted from BS while interacting with FS



Alignment Model  
2-layer BI-LSTM

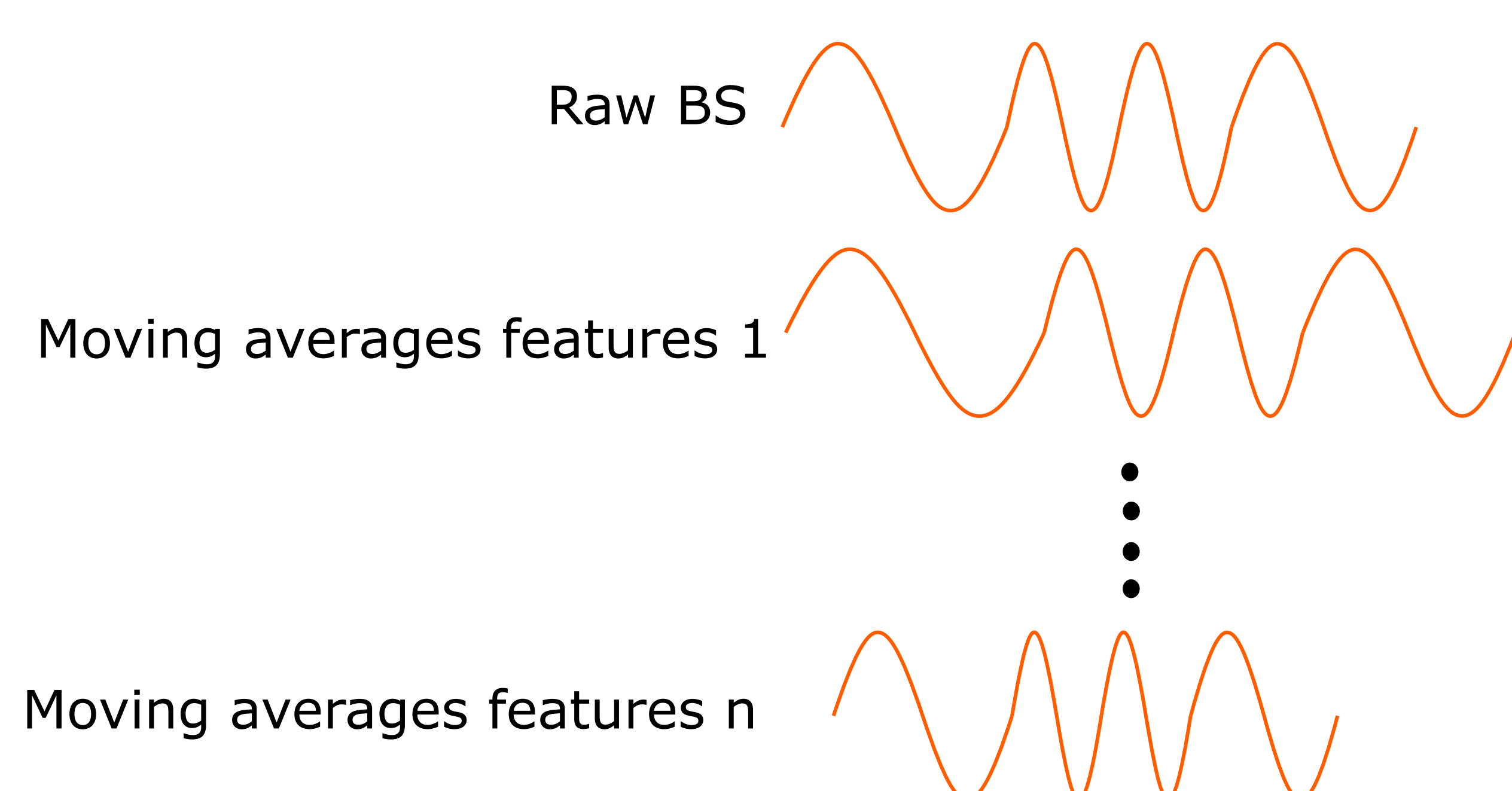


Output: Probability of Smartphone Interaction

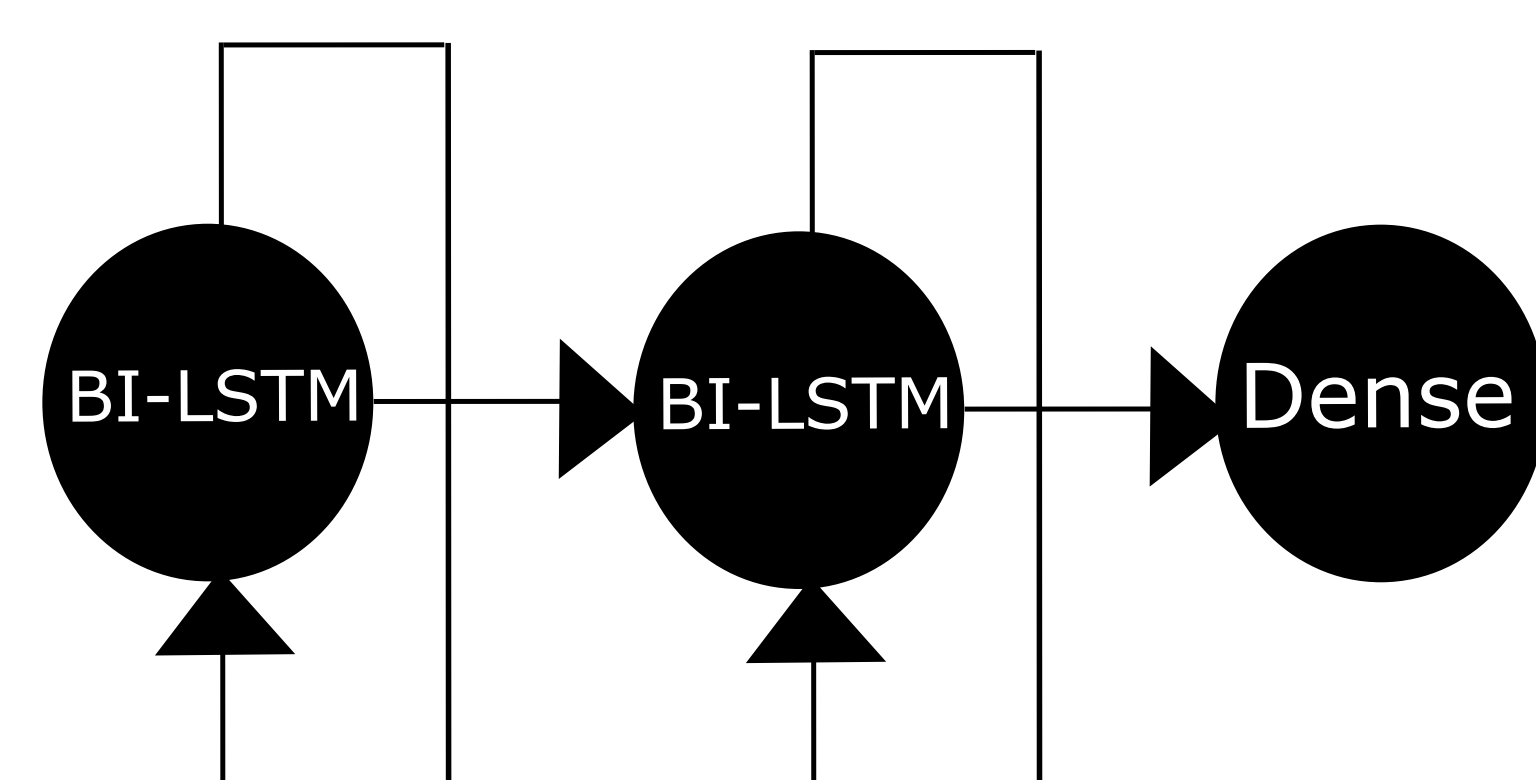


## C.1 Model Prediction

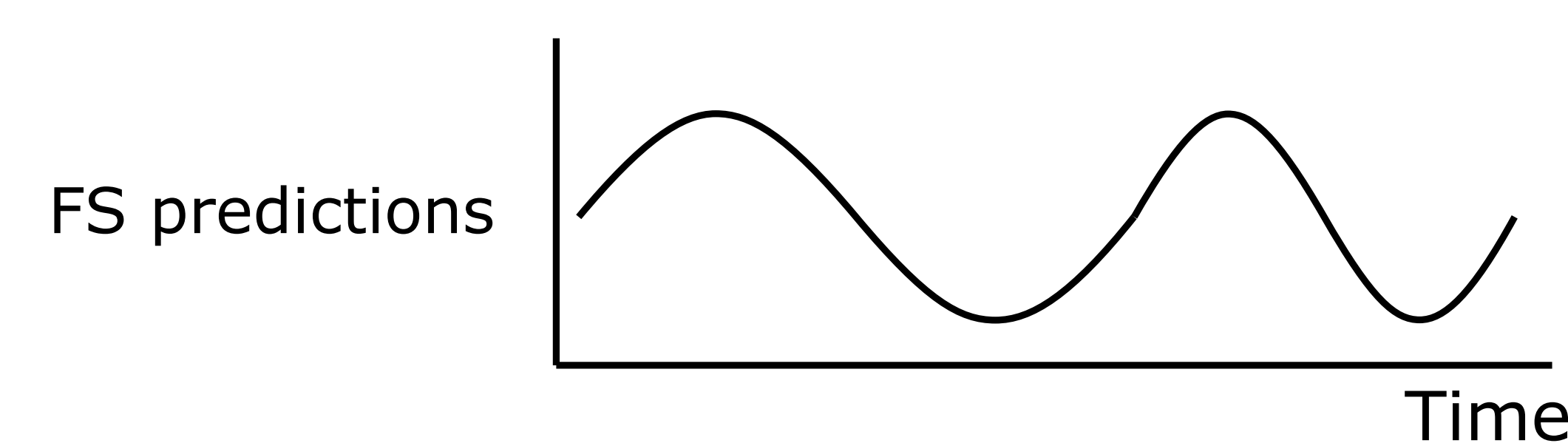
Input: BS and Moving Averages extracted from BS while interacting with FS



Alignment Model  
2-layer BI-LSTM

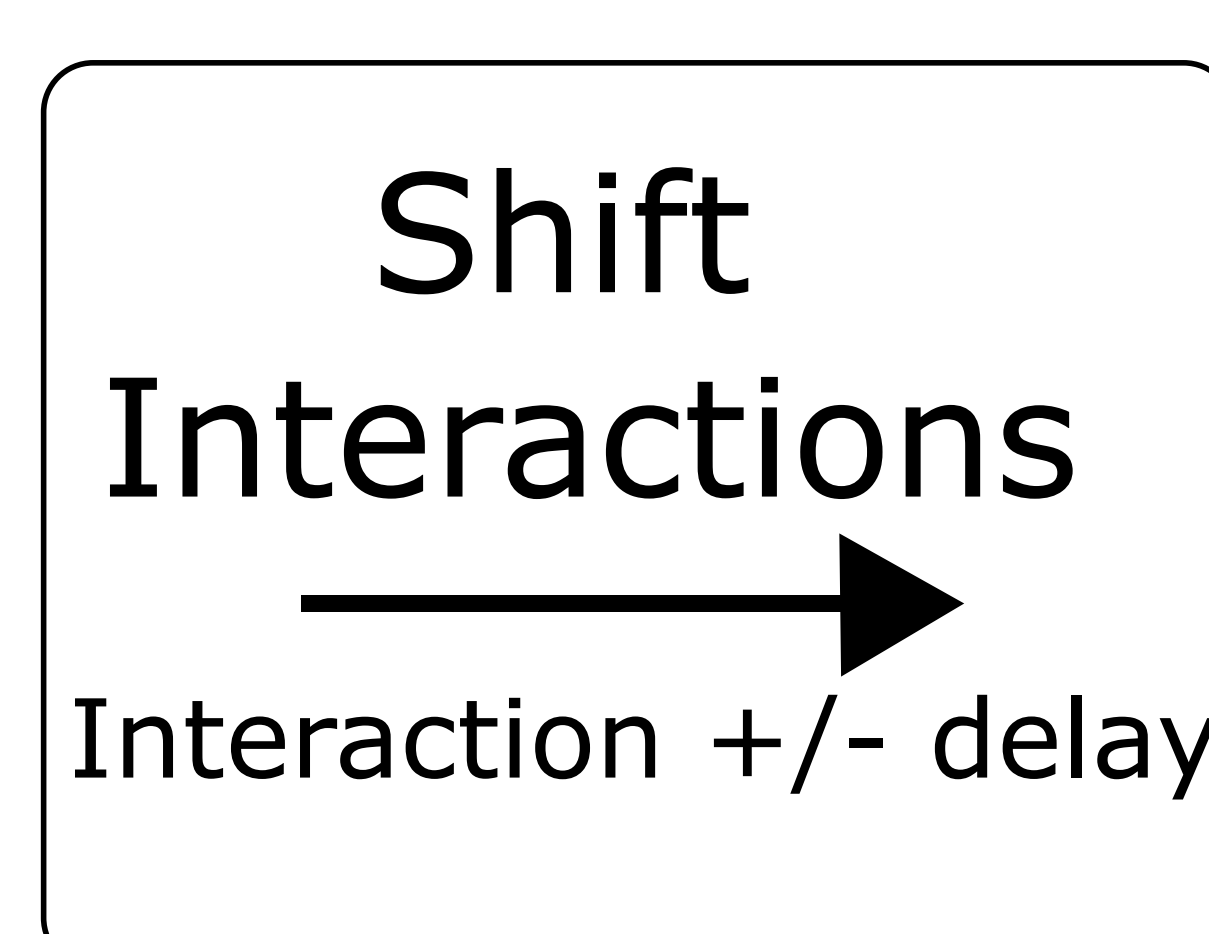
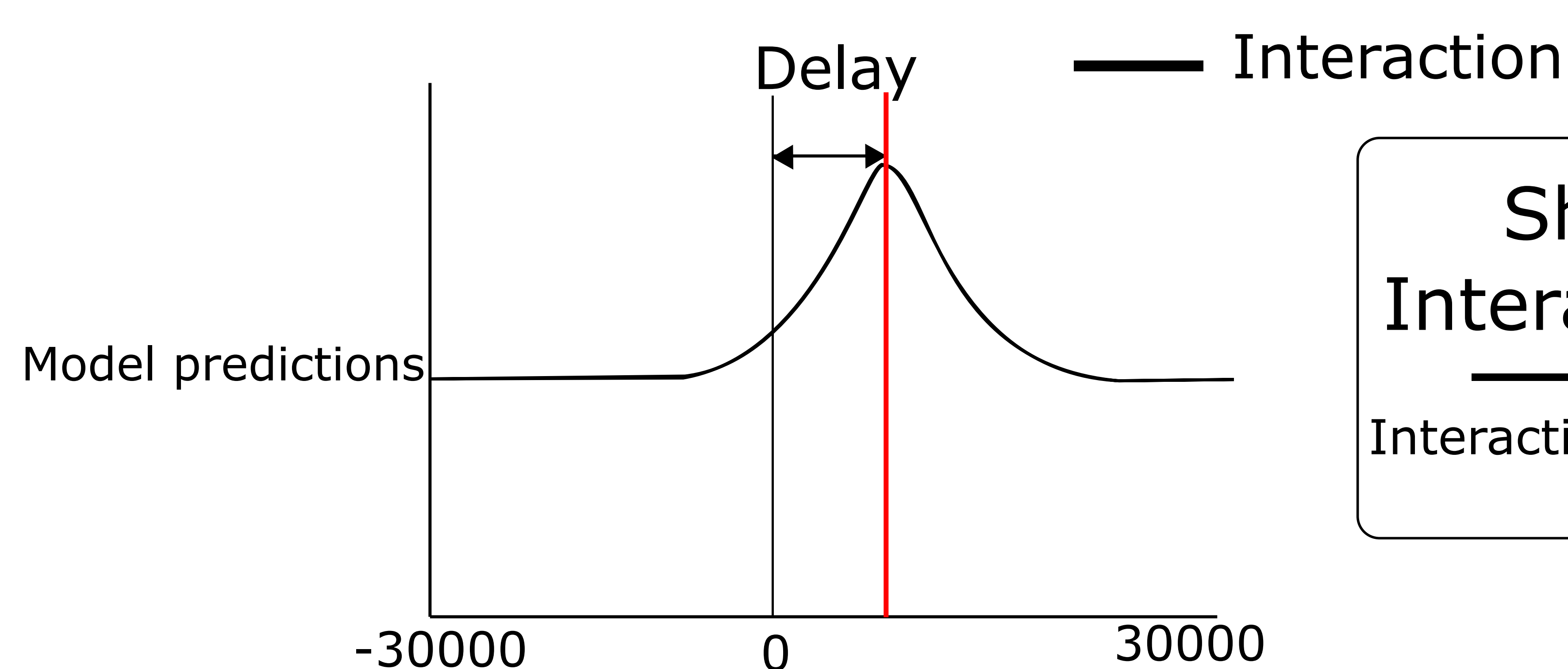


Output: Probability of Smartphone Interaction



## C.2 Model Alignment

Before Alignment



After Alignment

