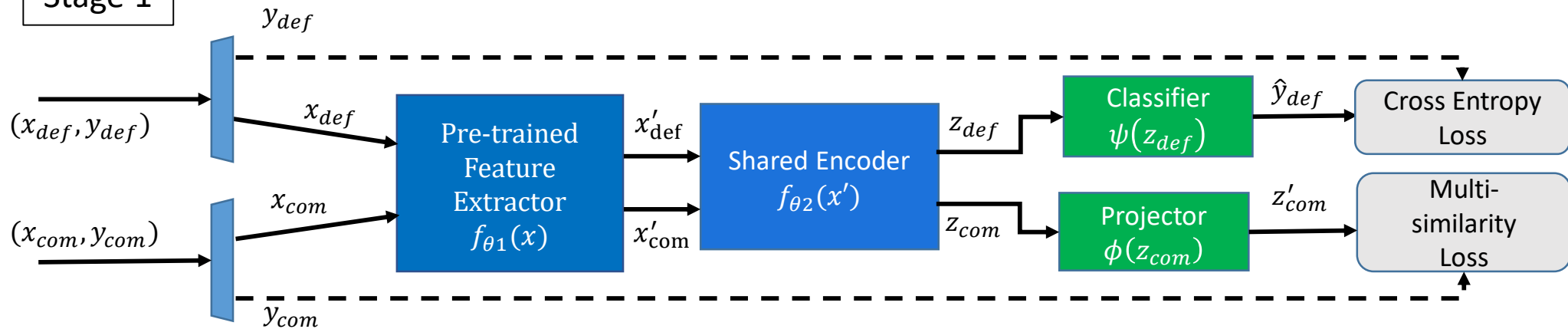
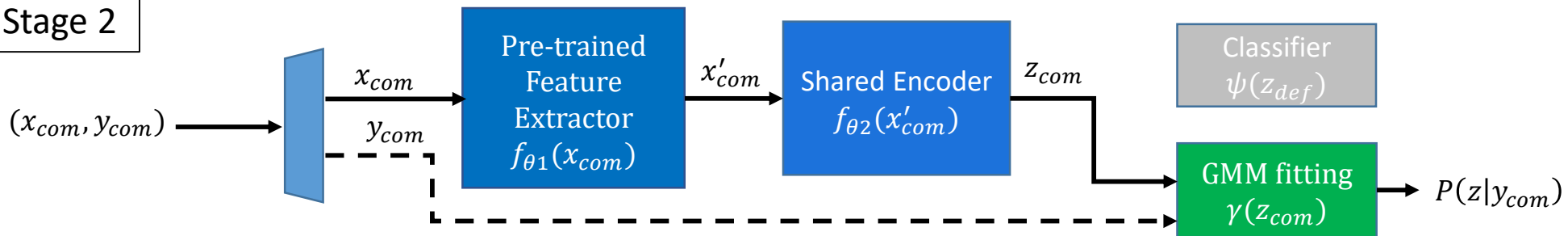


Stage 1



Stage 2



$x_{def} \in$ Training samples that are labeled as {Good, Bad/Missing, Bad/Stand, Bad/Shift, Bad/Short, Bad/Broken}

$x_{com} \in$ Training samples that are labeled as {Good, Bad/Missing, Bad/Stand}