Recieved Signals: **Tactile Internet**
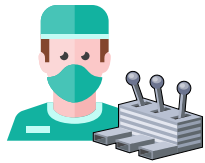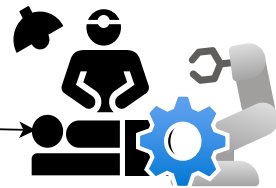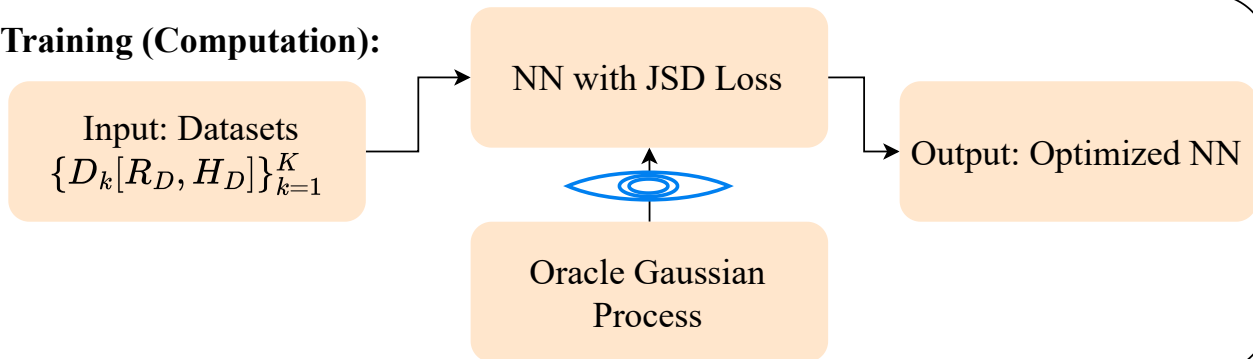
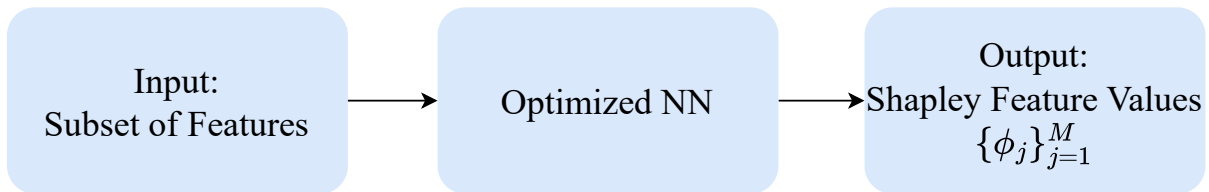$\leftarrow R_D[\{s(n)_{i,j}\}_{n=1}^N] - \quad - H_D[\{s(n)_{i,j}\}_{n=1}^N] \rightarrow$

Offline Training (Computation):

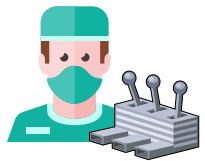Input: Datasets
$\{D_k[R_D, H_D]\}_{k=1}^K$

NN with JSD Loss

Output: Optimized NN

Oracle Gaussian
Process

Offline Analysis (Calculation):

Input:
Subset of Features

Optimized NN

Output:
Shapley Feature Values
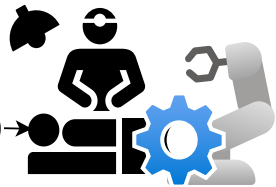$\{\phi_j\}_{j=1}^M$

Signal Loss or Delay: **Tactile Internet**

$\leftarrow R_D(\{s(n)_{i,j}\}_{i\in\{f,v,p\}}^{j\in\{x,y,z\}}) - \quad - H_D(\{s(n)_{i,j}\}_{i\in\{f,v,p\}}^{j\in\{x,y,z\}}) \rightarrow$

Online Inference Phase:

Input: New Data
$A_D[\{s(n)\}_{n=1}^w]$
$A \in \{H, R\}$

Optimized NN with
GP+SFV

Output: Prediction
$A_D[\{s(n+1)\}_{n=w}^{w+10}]$
$A \in \{H, R\}$