

$y \in \{\text{INSERT}, \text{NOINSERT}\}$

$y \in \{\text{PRUNE}, \text{NOPRUNE}\}$

fully-connected layer
(insert decisions)

fully-connected layer
(prune decisions)

max pool

Bi-LSTM

Learned embeddings

$\mathcal{x} =$ $\langle s \rangle$ ~~She said that~~ $\langle c \rangle$ the protocol limits $\langle \text{PRUNEdobj?} \rangle$ fire risk $\langle / \text{PRUNEdobj?} \rangle$ $\langle / c \rangle$ $\langle / s \rangle$

$m($ ~~She~~ ~~said~~ ~~that~~ **the** **protocol** **limits** ~~fire~~ ~~risk~~ $)$

dobj

fire **risk**