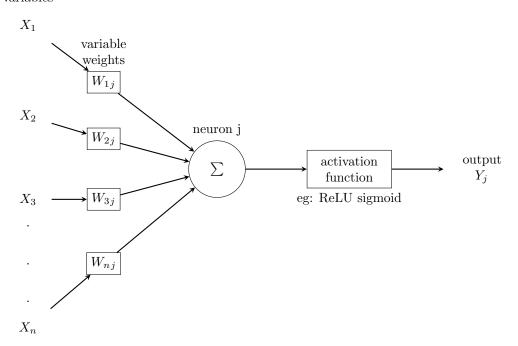
C4-W11-SecondExam-PeerReview

Daniels Tomsons April 2019 input variables



Code for Neural Network:

```
\usetikzlibrary{shapes.geometric}
 \usetikzlibrary{arrows,automata}
\usetikzlibrary{positioning}
\tikzstyle{arrow} = [thick,->,>=stealth]
\tikzstyle{1} = [circle, minimum width=0.5cm, minimum height=1.5cm, text centered, draw=blackers.
\tikzstyle{2} = [rectangle, minimum width=1cm, minimum height=1cm, text centered, text widtl
\tikzstyle{3} = [rectangle, minimum width=2cm, minimum height=1cm, text centered, text width
\tikzstyle{41} = [rectangle, text centered, draw=black]
\tikzstyle{42} = [rectangle, text centered, draw=black]
\tikzstyle{43} = [rectangle, text centered, draw=black]
\tikzstyle{44} = [rectangle, text centered, draw=black]
\tikzstyle{51} = [rectangle, minimum width=1cm, minimum height=1cm, text centered, text wid-
\tikzstyle{52} = [rectangle, minimum width=1cm, minimum height=1cm, text centered, text wid-
\tikzstyle{53} = [rectangle, minimum width=1cm, minimum height=1cm, text centered, text wid-
\tikzstyle{54} = [rectangle, minimum width=1cm, minimum height=1cm, text centered, text width=1cm, text w
\tikzstyle{61} = [rectangle, minimum width=1cm, minimum height=1cm, text centered, text
width=1cm]
\tikzstyle{62} = [rectangle, minimum width=1cm, minimum height=1cm, text centered, text width=1cm, text centered, text width=1cm, text width=
\tikzstyle{63} = [rectangle, minimum width=1cm, minimum height=1cm, text centered, text width=1cm, minimum height=1cm, text width=1cm, text widt
\begin{tikzpicture}[node distance=2cm]
\node (2) [2, label=below:eg: ReLU sigmoid] {activation \\ function};
\node (1) [1, label=above:neuron j,left of=2, xshift=-1.5cm] {$\sum$};
\node (41) [41, label=above:variable weights, left of=1, xshift=-1cm, yshift=2.3cm] {$W_1_j$
\node (42) [42, left of=1, xshift=-1cm, yshift=0.8cm] \{W_2_j\};
\node (43) [43, left of=1, xshift=-1cm, yshift=-0.8cm] \{W_3_j\};
\node (44) [44, left of=1, xshift=-1cm, yshift=-2.5cm] {W_n_j};
\node (51) [51, label=above:input variables, left of=41, yshift=1.5cm] {$X_1$};
\node (52) [52, left of=42, yshift=0.6cm] {$X_2$};
\node (53) [53, left of=43] \{X_3\};
\node (54) [54, left of=44, yshift=-1.7cm] {$X_n$};
\node (61) [61, left of=43, yshift=-0.7cm ] {.};
\node (62) [62, left of=43, yshift=-1.7cm ] {.};
\node (63) [63, left of=43, yshift=-2.7cm] {.};
\draw [arrow] (1) | (2);
\draw [arrow] (2) | (3);
```

```
\draw [arrow] (41) | (1);
\draw [arrow] (42) | (1);
\draw [arrow] (43) | (1);
\draw [arrow] (44) | (1);
\draw [arrow] (51) | (41);
\draw [arrow] (52) | (42);
\draw [arrow] (53) | (43);
\draw [arrow] (54) | (44);
```

\end{tikzpicture}