Architecture

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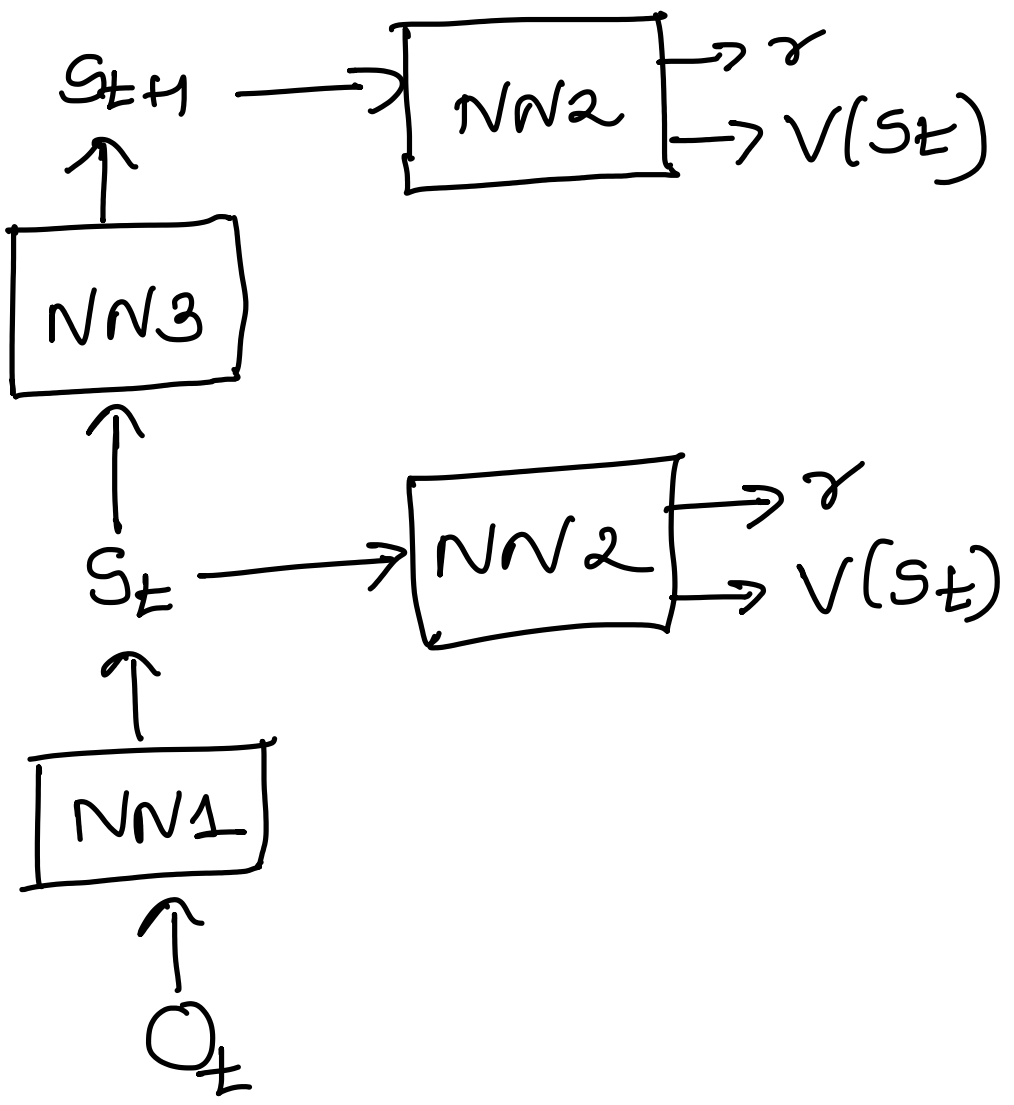

$O_t \Rightarrow$ Observations from CMAPPS data (24)

$S_t \Rightarrow$ Hidden state for observation O_t

$S_{t+1} \Rightarrow$ Next Hidden state

$NN1 \Rightarrow (24, 64, 64, 4)$

$NN2 \Rightarrow (4, 16, 16, 2)$

$NN3 \Rightarrow (4, 32, 32, 4)$

→ Note that we will be using NN3 to lookahead & calculate TD(λ) return.

→ We can start with simple k-step return(g_k) and then we can integrate TD(λ) return (g_λ).

→ As discussed, we will be using Monte-Carlo return (g) in our loss function $E[(g_\lambda - g)^2]$

→ Later, we would also like to try out back up ($R + \gamma V(s')$) as the target value.