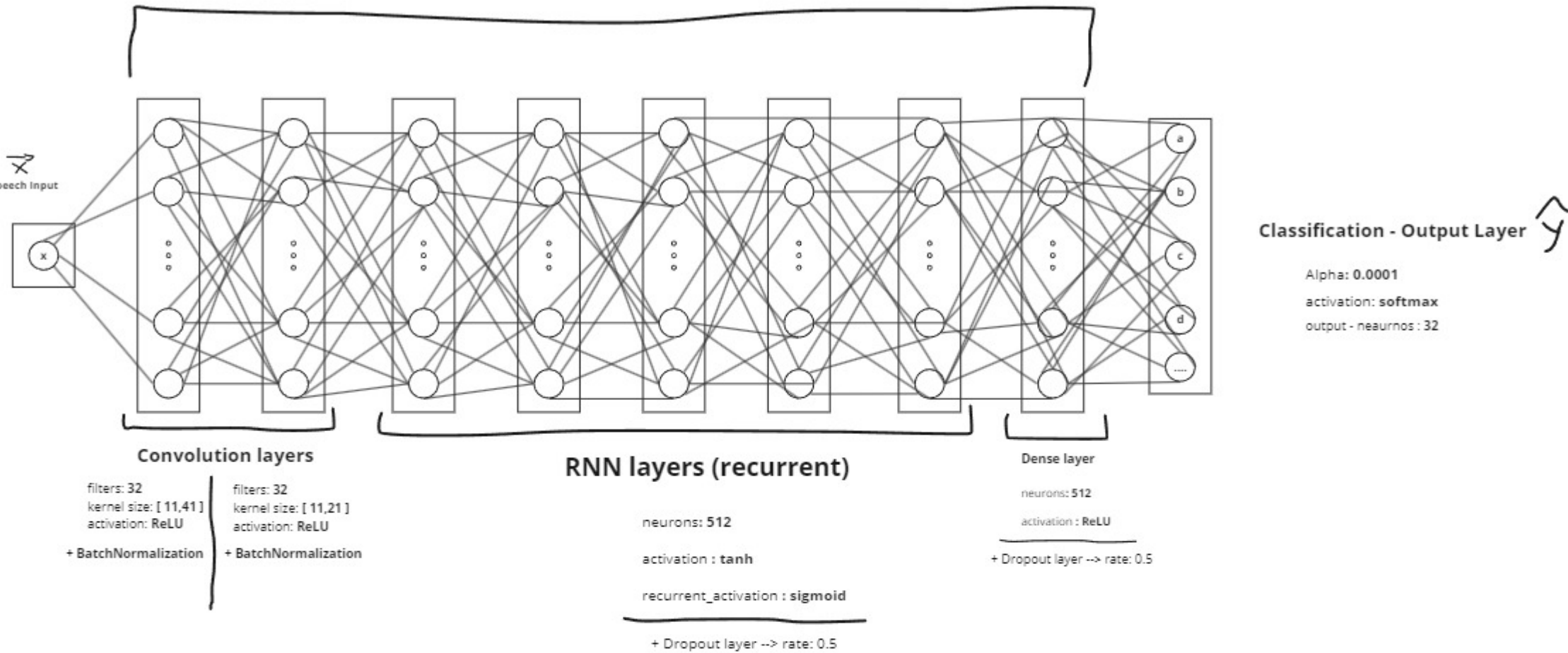


8 Hidden layers

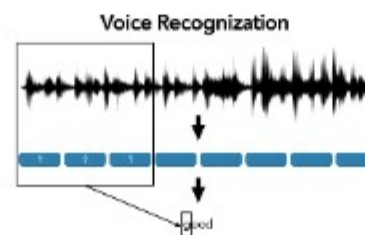


COMPILE THE MODEL

OPT: Adam

Loss: CTC

Connectionist Temporal Classification Loss



CTC Loss Function

- Maximum log likelihood training of transcript
- Intuition: Alignments are unknown so integrate over all possible time-character alignments

$$\mathcal{L}_{CTC}(X, W) = \sum_{C: \kappa(C)=W} p(C|X)$$

$$= \sum_{C: \kappa(C)=W} \prod_{t=1}^T p(c_t|X)$$

- Example: $W = \text{"hi"}, T = 3$
possible C such that $\kappa(C) = W$:
hhi, hii, hi, h i, hi