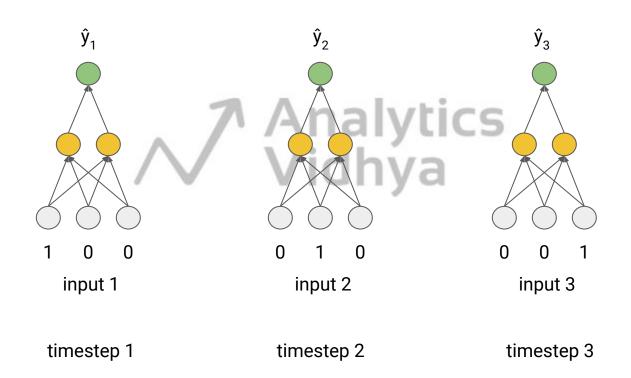
Recap of RNN / LSTM / GRU

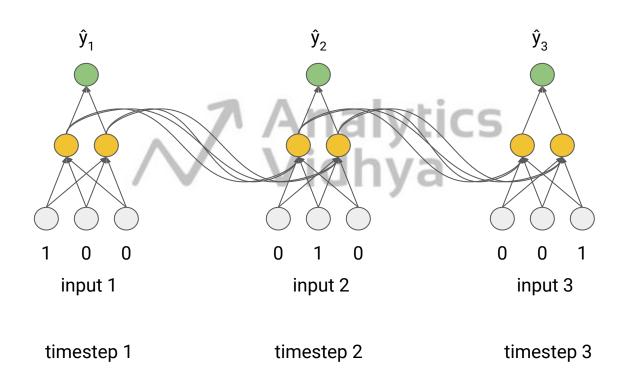


Recap - RNN Architecture



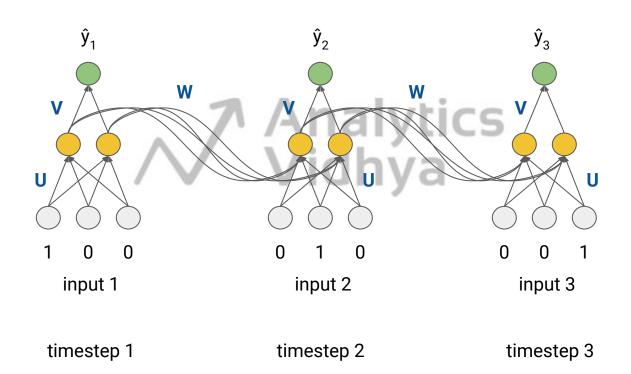


Recap - RNN Architecture



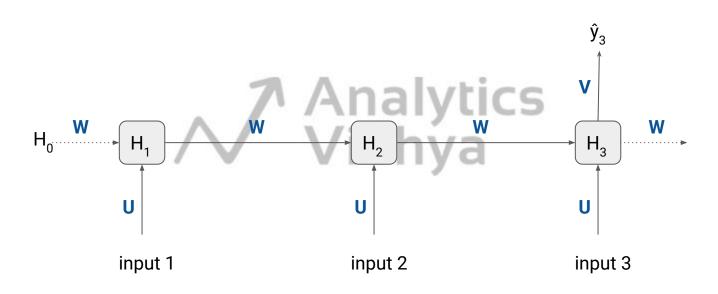


Recap - RNN Architecture





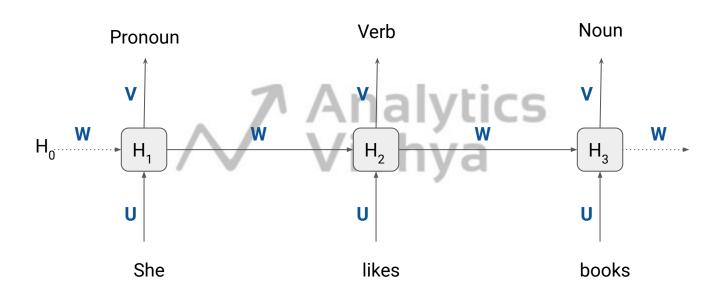
Recap - RNN Architecture Variants



many-to-one

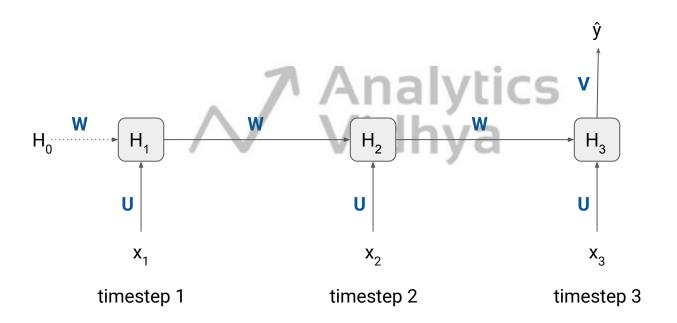


Recap - RNN Architecture Variants



many-to-many

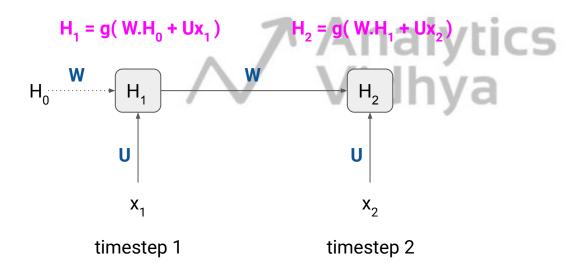




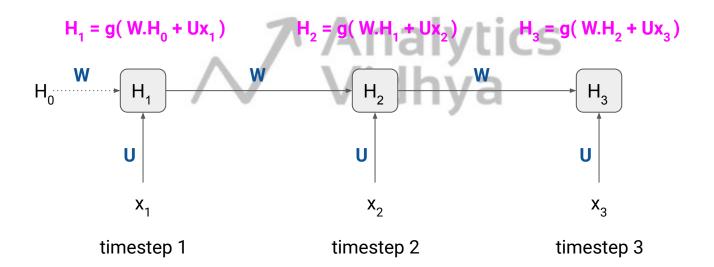




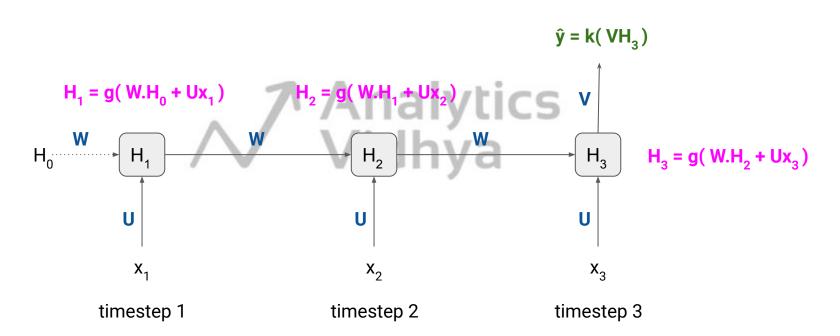






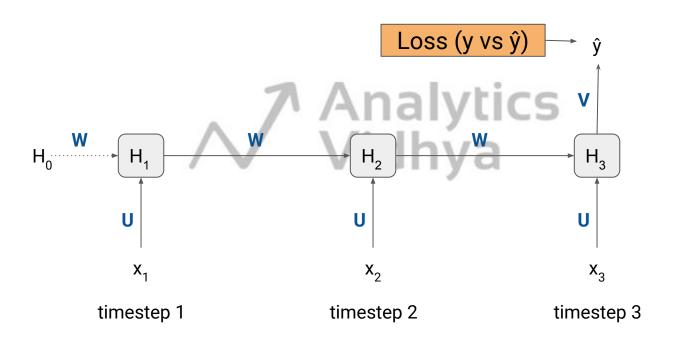






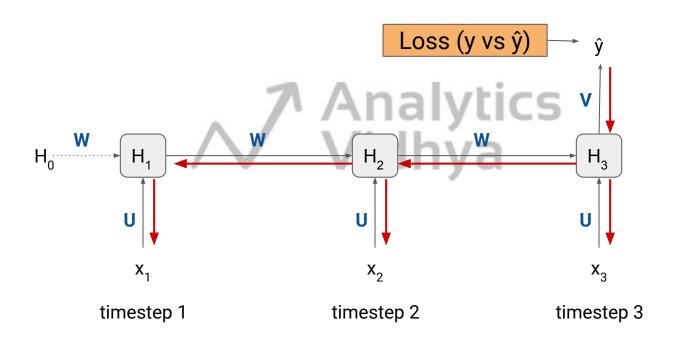


Recap - Back Propagation in RNN





Recap - Back Propagation in RNN





Recap - Issues with RNN

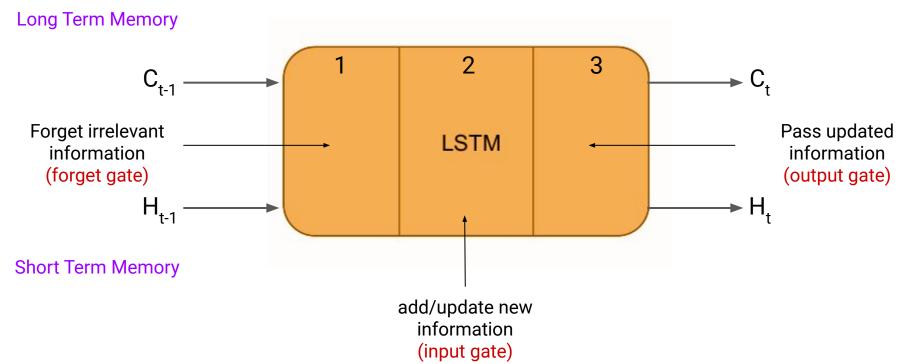
Vanishing Gradient

RNN does not perform well for long sentences Analytics Vidhya

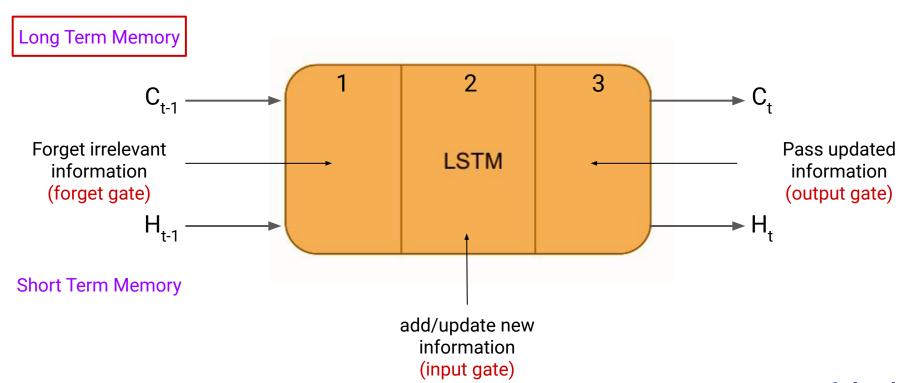
Exploding Gradient

- Gradients are large
- Poor predictions 0

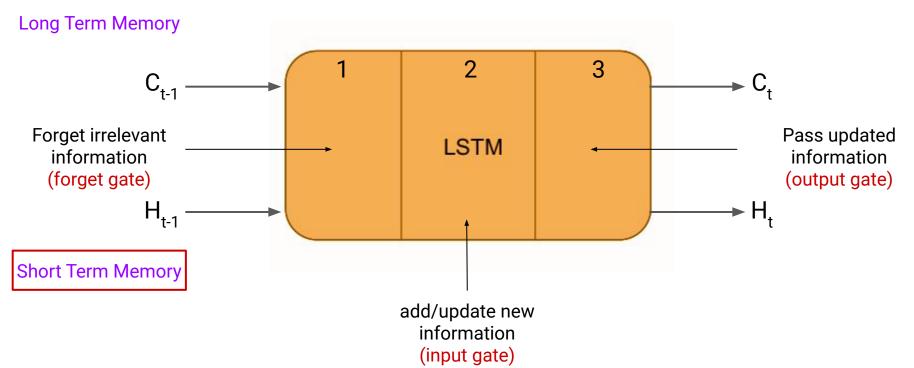




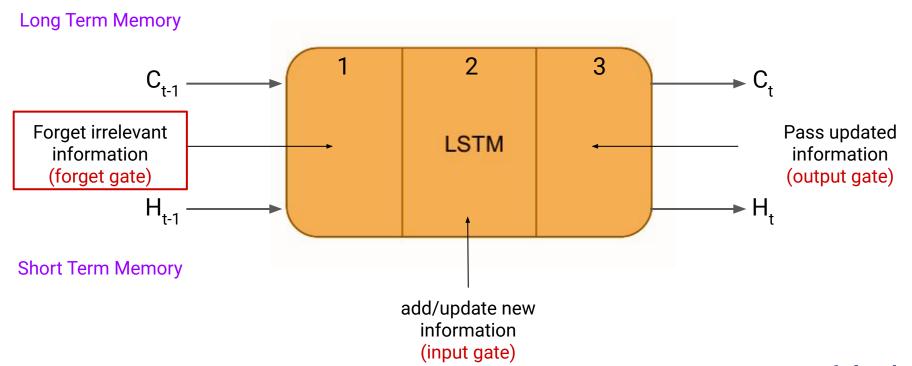




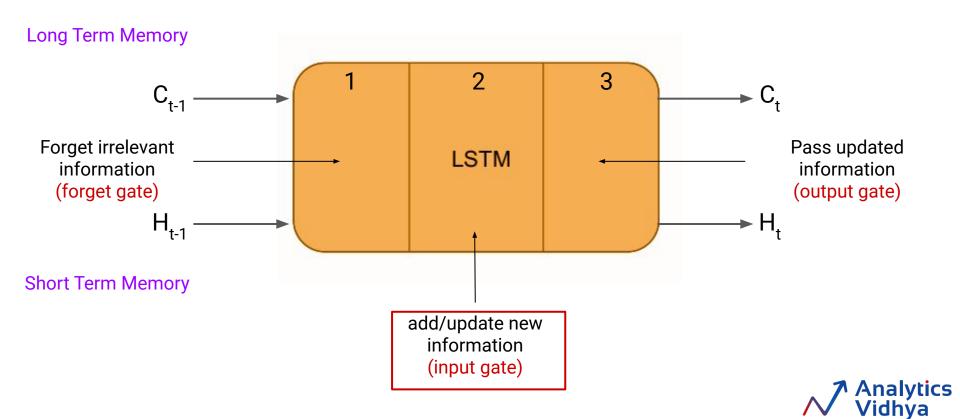


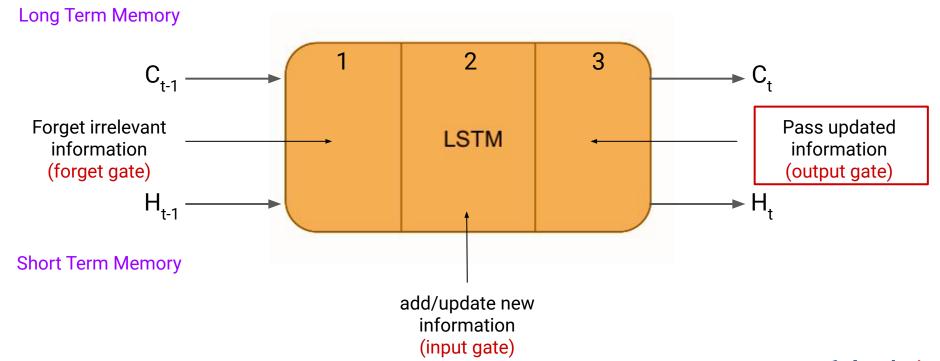




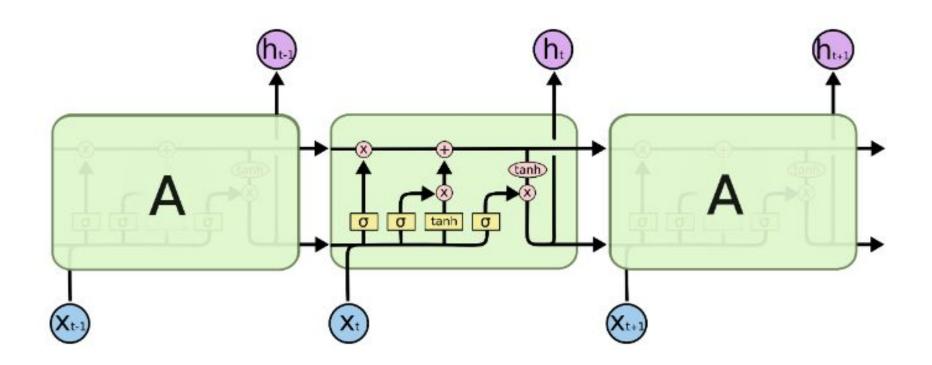














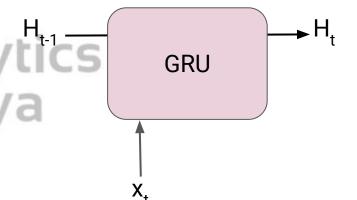
Recap - GRU

Reset Gate (short-term memory)

Update Gate (long-term memory)

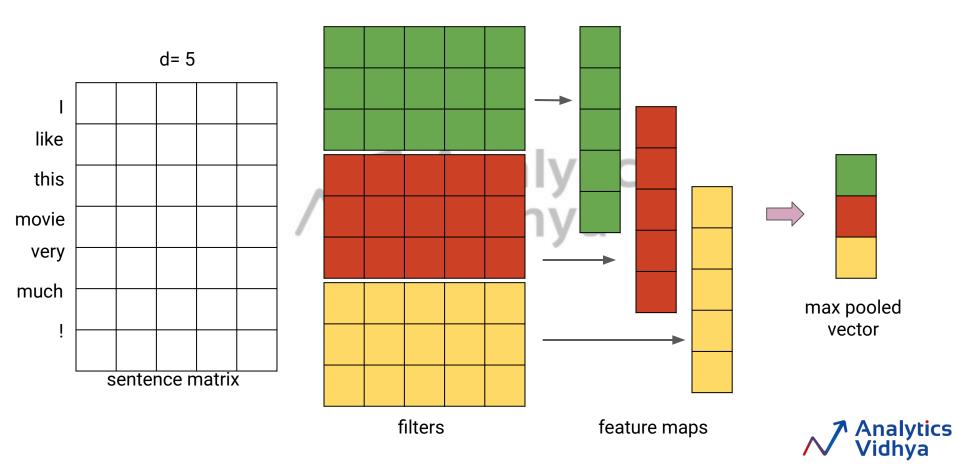
Simpler alternative to LSTM (fewer gates)

Faster training





Recap - CNN 1-D



Projects



Auto-Tagging StackExchange Queries



Projects





Auto-Tagging StackExchange Queries

Web Traffic Forecasting



Projects







Auto-Tagging StackExchange Queries

Web Traffic Forecasting

Audio Classification for Emergency Vehicle Detection





