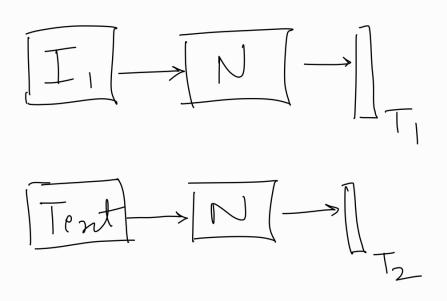
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Multi-Modal Self Supervised Learning



- -> Usrs: image captioning.
- → Search using kywords to namow down search space. Now you can apply KNN, etc.

RNNS

Keep content of previous sequence of characters/words.

BPTT: Back Prop Through Time

$$h_{t} = \phi(WX_{t} + Vh_{t-1}) Vanishing Gradient power$$

$$Y_{t} = \phi(UTh_{t}) The deeper$$

$$go, the lower$$

Vanishing
Gradient problem.
The deeper you
go, the lower
the effect of of
on earlier inputs.

Sentiment Analysis Network Son Analysis Network Analysis Network Analysis Network XN-1 XN XN-1 XN

Single output

How to embed image?

Paus through CNN, take Second-last layer. Use that as Oth content to the RNN (used for image captioning)