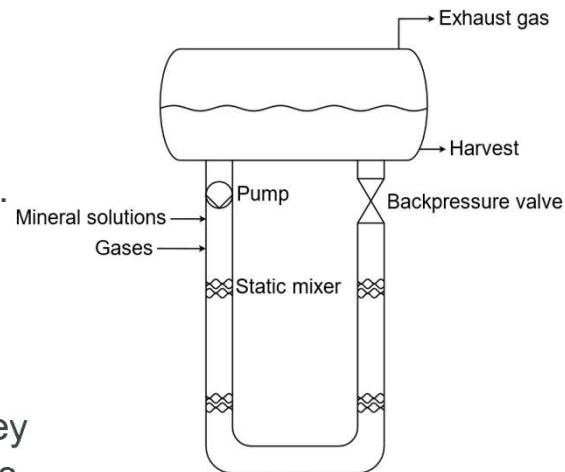


Introduction

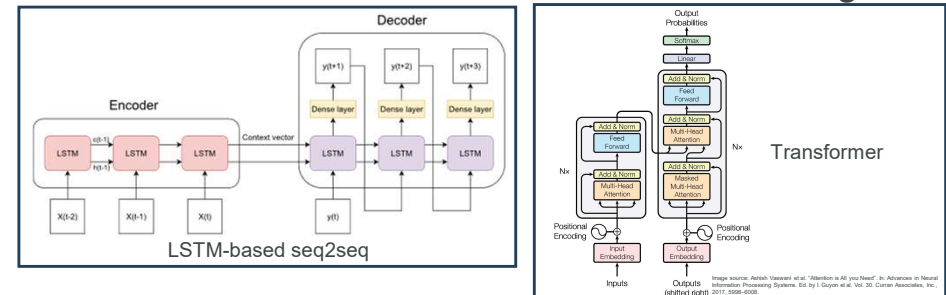
Unibio has developed the U-loop reactor for producing single cell protein from methane.

This project aims to use data collected to train a deep neural network to forecast key production parameters.

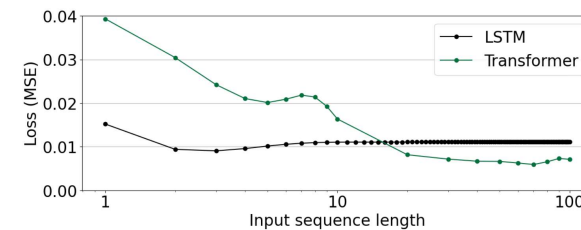


Preliminary results

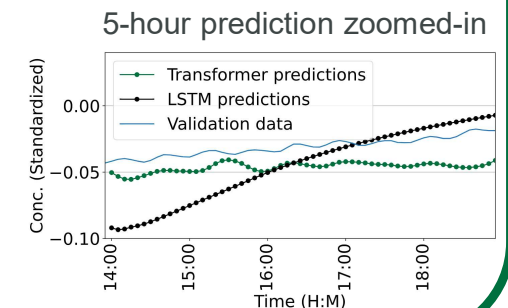
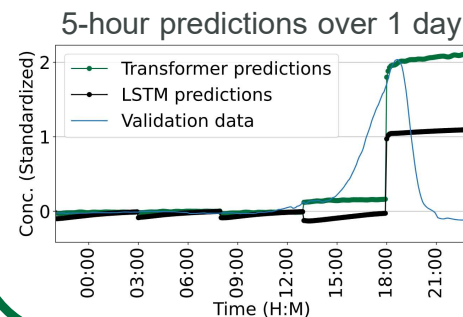
Different model architectures have been investigated.



LSTM-based models 'remember' too little compared to transformer-based models.



Transformer models generally achieves lower loss, but more work is needed for satisfactory predictions.



Methods

