



# Survey of Knowledge Integration Techniques for Sequence to Sequence and Time Series Models

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# Concept

- Knowledge Base Systems: Models that are based on the on domain expertise
- Deep Learning Neural Networks
  - Recurrent Neural Network
  - Time-Series Modeling
- Sequence to Sequence Models



# Time Series Modeling

- Popularity of Online content
  - LSTM
  - Knowledge Base
- Improved Demand forecasting
- Short Term demand forecasting
  - LSTM
  - Fussy Time Series
- Knowledge Driven stock prediction
  - Structured Knowledge
  - LSTM



# Sequence-to-Sequence

- Neural Machine Translation
- Machine Comprehension
- Generative Conversational Service Agent