Attention-based Question Answering

Zhiling Huang   Li Deng

Model Architecture

Context   Questions   Additional Features

Is-keyword   In-Qn/Con

Term *idf*

tesla	7.5
1949	5.1
in	-2.2

LSTM

Bi-Attn

Q2C   C2Q

Self-Attention

LSTM   LSTM

LSTM   LSTM

Dense

Softmax

Embedding Layer

Attention Layer

Modelling Layer

Prediction Layer

Start

End

Span

Cond. Prob.
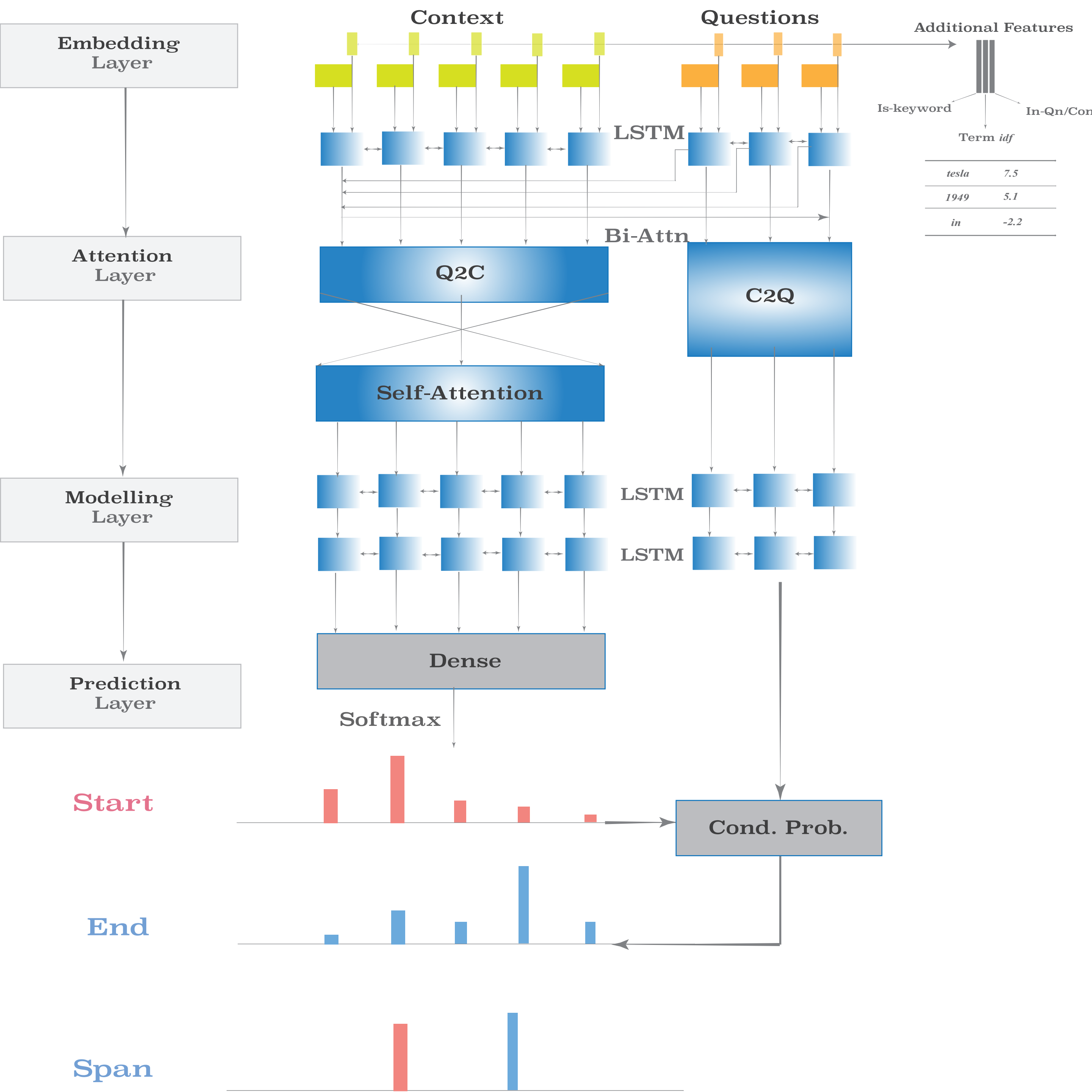
Results

	Single	Ensemble
F1	0.76	0.75
EM	0.65	0.65

Error Analysis

Distribution of F1 & EM

Answer Length Error Analysis

F1 by Answer Length (Ground Truth)

EM by Answer Length (Ground Truth)

F1 by Question Type

EM by Question Type