

	TRAIN		TRAIN-ALL	
Model	MAP	MRR	MAP	MRR
CNN + LR	0.7058	0.7846	0.7113	0.7846
CNN	0.7000	0.7469	0.7216	0.7899
CNTN	0.7045	0.7562	0.7278	0.7831
LSTM	0.7007	0.7777	0.7350	0.8064
MV-LSTM	0.7077	0.7821	0.7327	0.7940
NTN-LSTM	0.7225	0.7904	0.7364	0.8009
HD-LSTM	<u>0.7520</u>	<u>0.8146</u>	0.7499	0.8153
QRNN	0.7000	0.7859	<u>0.7609</u>	<u>0.8227</u>
CTRN (This paper)	0.7582	0.8233	0.7712	0.8384