

multiple-aspect  
trajectory  
representation T

Hotel  
(48.8643, 2.3345)  
★★★★  
\$\$\$\$  
Mon, 7am  
Rainy weather



Museum  
(48.8606, 2.3380)  
★★★★  
\$\$\$  
Mon, 8am  
Rainy weather



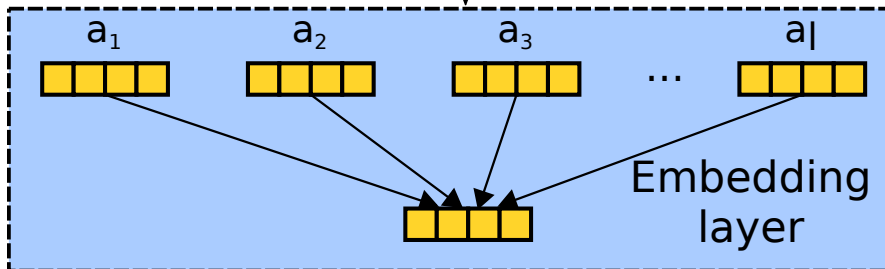
...



Cafe  
(48.8609, 2.3494)  
★★★  
\$\$\$  
Mon, 8pm  
Cloudy weather

(1)

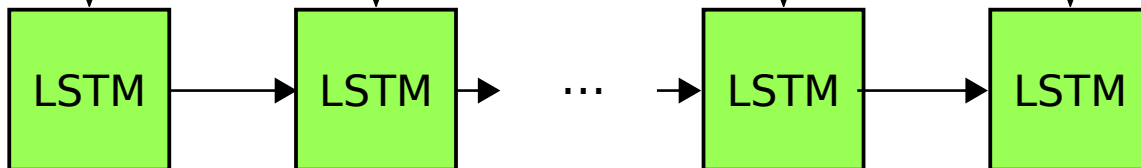
One-hot/  
geohash encoding



Embedding  
initialization

Embedding  
method  
(e.g. random,  
autoencoder,  
CBOW)

(3)



Fully connected layer with Softmax activation

(4)

Class probability distribution

label(T)

Trajectory  
encoding

Recurrent  
component

Trajectory  
classification