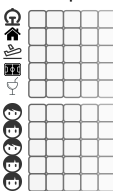


 Tuned  Frozen



POI Look-up Table





PAM

GCIM

Sequence Model

Trajectory prompting

 : The following is the current trajectory of user ... Which POI id will user 62 visit?
 : User 62 will visit POI id 3321.

GCIM/PAM Fine-Tuning

Semantic Space

[GPS 404]

[TEXT] [POI 404]

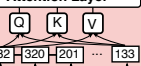


Concatenation & Projection


Average Pooling

FNN

Attention Layer



(lat, lon)

 : The following is current trajectory of user 62, ...<POI 404>, coordinates token is <GPS 404>, Which POI will user 62 visit?

GCIM

POI Alignment Module

LLM Tokenization & Embedding Look-up

no

yes

is POI token?

POI Look-up Table



PAM