Action Confusion matrix action_book_hotel action_book_restaurant action_book_taxi action_book_train action_listen book_booking_attraction book_booking_hotel book_booking_restaurant bye_general greet_general inform_attraction inform_booking_attraction inform_booking_hotel $inform_booking_restaurant$ inform_booking_train inform_hotel inform_restaurant inform_taxi inform_train nobook_booking_hotel nobook_booking_restaurant nooffer_attraction nooffer_hotel nooffer_restaurant nooffer_train offerbook_train offerbooked_train recommend_attraction recommend_hotel recommend_restaurant reqmore_general request_attraction request_booking_hotel request_booking_restaurant 0 19 0 request_hotel 0 request restaurant 0 0 0 0 0 1 0 request_taxi 0 request_train select_attraction select_hotel select_restaurant 0 5 2 0 1 0 0 0 select_train welcome_general

True label

action_book_restaurant

action_book_taxi action_book_train action_listen

book_booking_attraction

book_booking_hotel

book_booking_restaurant

bye_general

greet_general

action_book_hotel

inform_attraction

inform_booking_attraction

inform_booking_restaurant

inform_booking_train

inform_hotel

inform_restaurant

inform_taxi

inform_train

nobook_booking_hotel

inform_booking_hotel

- 10² - 10¹ 10^{0}

select_restaurant

select_hotel

welcome_general

select_train

- 10³

nobook_booking_restaurant Predicted label

nooffer_attraction

nooffer_hotel

nooffer_restaurant

nooffer_train

offerbook_train

offerbooked_train

recommend_attraction

recommend_hotel

recommend_restaurant

reqmore_general

request_attraction

request_booking_hotel

request_booking_restaurant

request_booking_taxi

request_hotel

request_restaurant

request_taxi

request_train

select_attraction