A   Appendix

A.1   Outputs from different modules


(a) Engine's Output at each level

(b) Extracted information (Triplet Table)
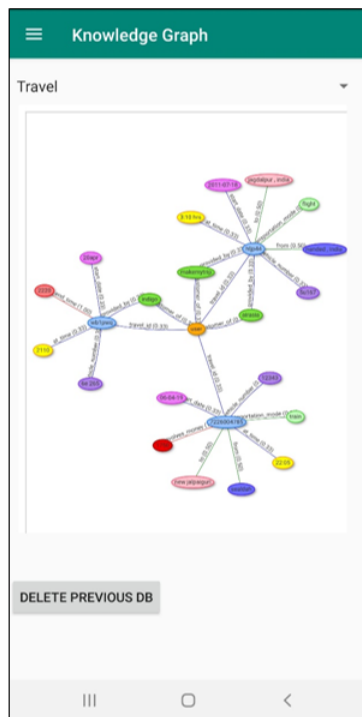
(c) Extracted information For Travel domain (Knowledge Graph)
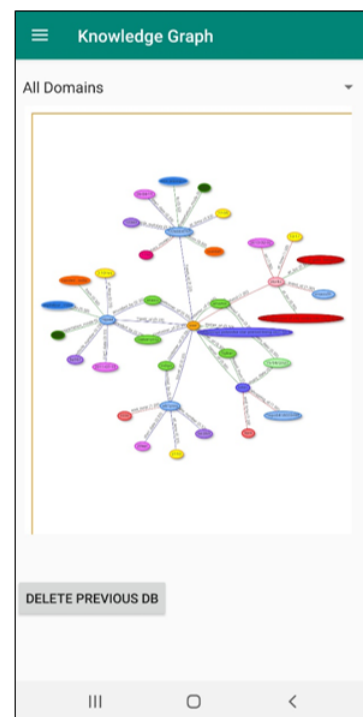
(d) Extracted information For all domains (Knowledge Graph)

Figure 1: Outputs obtained at each level and the constructed knowledge graph.

A.2 Examples from the dataset

Domain	Message/ Notification/ Calendar – Attribute Extractor Output
Shopping	[@Dispatched**#Status***]: Your package with [@Philips DJ SHL3000/00 Over-Ear Headphone (Blue)**#Product***] [@will be delivered**#Status***] on or before [@Wed, June 29**#EndDate***]. Track at www.amzn.in/track
Travel	Dear John - Your [@IndiGo**#Vendor***] PNR is [@K2***L**#PNR***]- [@6E 457**#VehicleNo***] [@24Jun**#StartDate***] [@HYD**#SourceLocation***]-[@BLR**#Destination***] [@0615**#StartTime***]/[@0720**#EndTime***]. Use our app- http://mobile.goindigo.in to check [@flt. status**#TravelMode***] or book next time.
Event	Your ticket details for [@Spider-Man**#EventName***]: Far From Home are: [@June 29**#StartDate***], [@1:30 PM**#StartTime***] at [@PVR VR IMAX, Whitefield Road**#Destination***], AUDI 03, 2 Seat(s): Prime - N10, N9. Total amount: [@Rs. 1284.72**#Amount***]. Booking ID: [@VRIM********77**#ID***]. Please click here https://p-y.tm/kgX-zGf to get your e-ticket. Show this QR Code at the [@cinema**#EventType***] entrance. Pay for your food via Paytm at the cinema and get assured Cashback! T&C apply
Service	John, your appointment ID: [@90***7**#ID***] [@has been confirmed**#Status***] at [@Oro Care Dental Center**#Destination***] on [@29th June**#StartDate***] [@4:15 pm**#StartTime***]. Any query call 093******00. The clinic accepts credit card, debit card, net banking, and online wallets. To get directions to the clinic, click here: http://prac.to/ml?t=ShmjSuXx. Practo's T&C Applicable.
Personal	[@Sarika**#PersonName***] [@sister's**#Relation***] [@wedding day**#Occasion***]

Table 1: Sample Example For Each Domain With Extracted Attributes

Message/ Notification/ Calendar	Relevant fields	Entity Output
Dispatched: Your package with Philips DJ SHL3000/00 Over-Ear Headphone (Blue) will be delivered on or before Wed, June 29. Track at www.amzn.in/track	Sender: "VK-Amazon"	**Product:** Philips DJ SHL3000/00 Over-Ear Headphone (Blue), **Vendor:** Amazon, **Status:** Book, **End Date:** 29-Jun-2021
Dear John -Your IndiGo PNR is K2***L- 6E 457 24Jun HYD-BLR 0615/0720. Use our app- http://mobile.goindigo.in to check flt. status or book next time.	Sender: "VK-IndiGo"	**PNR:** K2***L, **Vehicle No:** 6E 457, **Vendor:** IndiGo, **Travel Mode:** flight, **Source Location:** Hyderabad, **Destination:** Bengaluru, **Start Date:** 24-Jun-2021, **Start Time:** 06:15:00 , **End Time:** 07:20:00
Your ticket details for Spider-Man: Far From Home are: June 29, 1:30 PM at PVR VR IMAX, Whitefield Road, AUDI 03, 2 Seat(s): Prime - N10, N9. Total amount: Rs. 1284.72. Booking ID:VRIM********77. Please click here https://p-y.tm/kgX-zGf to get your e-ticket. Show this QR Code at the cinema entrance. Pay for your food via Paytm at the cinema and get assured Cashback! T&C apply	Sender: "BZ-iPaytm"	**Event name:** Spider Man: Far From Home, **Event type:** Movie, **Destination:** PVR VR IMAX, Whitefield Road, Vendor: paytm, **ID:** VRIM********77, **Start Date:** 29-Jun-2021, **Start Time:** 13:30:00, **Amount:** Rs. 1284.72
John, your appointment ID: 90***7 has been confirmed at Oro Care Dental Center on 29th June 4:15 pm. Any query call 093******00. The clinic accepts credit card, debit card, net banking, and online wallets. To get directions to the clinic, click here: http://prac.to/ml?t=ShmjSuXx. Practo's T&C Applicable.	Sender: "TX-PRACTO"	**ID:** 90***7, **Vendor:** Practo, **Start Date:** 29-June-2021, **Start Time:** 16:15:00, **Destination:** Oro Care Dental Center, **Status:** Book
Sarika sister's wedding day	Date: 1 Aug, 2020	**Person Name:** Sarika, **Relation:** sister, **Occasion:** Wedding anniversary, **Start Date:** 01-Aug-2020

Table 2: Sample Example For Each Domain With Entity Linker Output