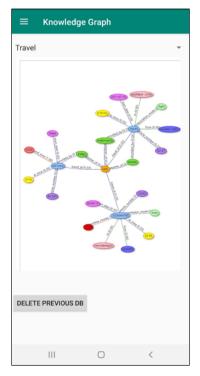
## A Appendix

## A.1 Outputs from different modules

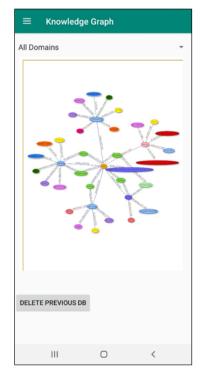
Input	Sender: +918861366228 Content: The PNR for your AirAsia Fit 5U167 for NDC-JGB on 2011-07-18 at 3:10 hrs is HL,JP44. Tip: Check PNR status and book using MakeMyTrip Appl. Thank you.	
Classifier	Domain : travel	
Extracted Attributes	vehiclenumber : Su167 vendor : ['airasia'; 'makemytrip'] destination : Jgb starttime : 3:10 hrs id : hijp44 startdate : 2011-07-18 travelmode : flt sourcelocation : ndc	
Linked Entities	vehiclenumber : Su167 vendor: ["airasia"; "makemytrip"] destination: jagdalpur, india starttime: 3:10 hrs id: hijp44 startdate: 2011-07-18 travelmode: flight sourcelocation: nanded, india	
Triplets	customer_of : user -> airasia customer_of : user -> makemytrip travel_id : user -> hljp44 transportation_mode : hljp44 -> ficht	
III	0 <	

(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 <b>#SourceLocation</b> *]-[@BLR <b>#Destination</b> *]		
	[@0615 <b>#StartTime</b> *]/[@0720 <b>#EndTime</b> *]. 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	Sender:	<b>Product:</b> Philips DJ SHL3000/00
Philips DJ SHL3000/00 Over-Ear	"VK-Amazon"	Over-Ear Headphone (Blue), Vendor:
Headphone (Blue) will be delivered on		Amazon, Status: Book, End Date:
or before Wed, June 29. Track at		29-Jun-2021
www.amzn.in/track		
Dear John - Your IndiGo PNR is	Sender:	<b>PNR:</b> K2***L, <b>Vehicle No:</b> 6E 457,
K2***L- 6E 457 24Jun HYD-BLR	"VK-IndiGo"	Vendor: IndiGo, Travel Mode: flight,
0615/0720. Use our app-		Source Location: Hyderabad,
http://mobile.goindigo.in to check flt.		Destination: Bengaluru, Start Date:
status or book next time.		24-Jun-2021, Start Time: 06:15:00,
		<b>End Time:</b> 07:20:00
Your ticket details for Spider-Man: Far	Sender:	Event name: Spider Man: Far From
From Home are: June 29, 1:30 PM at	"BZ-iPaytm"	Home, Event type: Movie,
PVR VR IMAX, Whitefield Road,		<b>Destination:</b> PVR VR IMAX,
AUDI 03, 2 Seat(s): Prime - N10, N9.		Whitefield Road, Vendor: paytm, ID:
Total amount: Rs. 1284.72. Booking		VRIM******77, Start Date:
ID:VRIM******77. Please click		29-Jun-2021, Start Time: 13:30:00,
here https://p-y.tm/kgX-zGf to get		<b>Amount:</b> Rs. 1284.72
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		
John, your appointment ID: 90***7	Sender:	ID: 90***7, Vendor: Practo, Start
has been confirmed at Oro Care	"TX-PRACTO"	Date: 29-June-2021, Start Time:
Dental Center on 29th June 4:15 pm.		16:15:00, <b>Destination:</b> Oro Care
Any query call 093*****00. The		Dental Center, Status: Book
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.		
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