

Government's Reach to Social Media Audience

Presented By

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NIC Karnataka

Government departments receive lot of feedback/ suggestions/complaints/ comments from citizens on various subjects like department functioning, programs, schemes, services etc. through various channels like web site, phone, email and social media

pravin Kumar 1 year ago

सर अभी मैं मकान लिया नहीं हूं, मुझे नया फ्लैट लेना है वो भी लोन से । सर मैं आपसे इतना जानना चाहता हूँ कि मैं इस समय CLSS फॉर्म भर सकता हु की नहीं? या मकान लेने के बाद?

Vishal Dodiya 💶 @iamDodiya · 27 Dec 2018

One more Good News For Gujarat a specially bjp government on completing of 1 year..

Gujarat becomes the first state to reach the milestone figure of 1 lakh houses under the CLSScheme Congratulations @vijayrupanibjp sir..

#PMAYUrban #HousingForAll



You Tube

Vijaay Mahato Hi.. I just wanted to bring few things in highlight... Recently visited CDC centre in my area... As per the website information registration for Pradhan Mantri awas yojna is Rs. 25 but CDC staff are charging from 150 to 250 for registration process... THERE IS A LOOP HOLE WHICH GOVT AGENTS NEEDS TO CLOSE..



The feedback is received in textual, video, image and audio formats.

But still it becomes a tedious work for the administrative officers to view each feedback data coming from all these social media and to make an inference from this.

The technological advancements in the field of machine learning/Artificial intelligence can be reaped to find a solution to this problem.

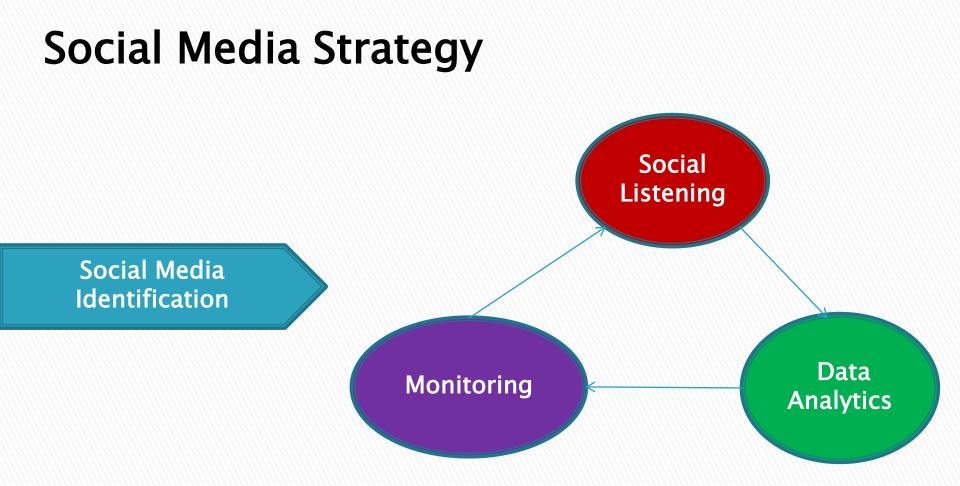
MinT is an attempt in that direction.

There is a need for a mining and classification engine MinT which reads feedback/ suggestions/complaints/ comments of citizens in audio/text format on different government schemes/services from **Emails, Web Applications, Social Media sites** like Twitter, Facebook and do Data Mining to generate a dashboard which will help senior officers of department to understand citizens' needs and priorities.

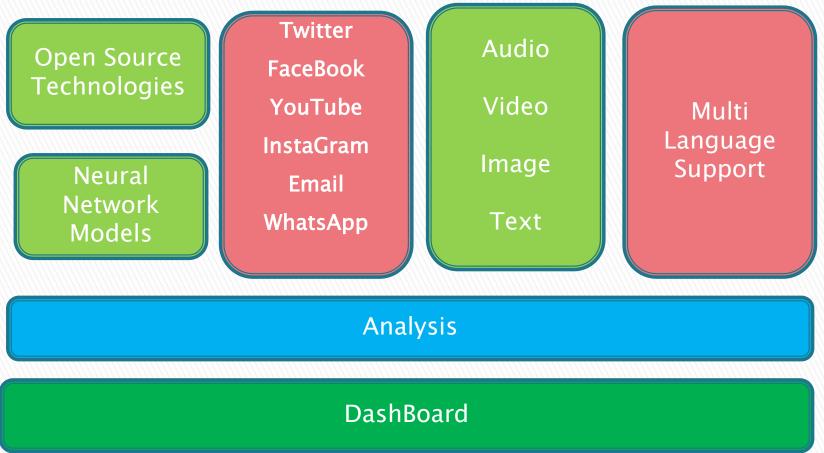




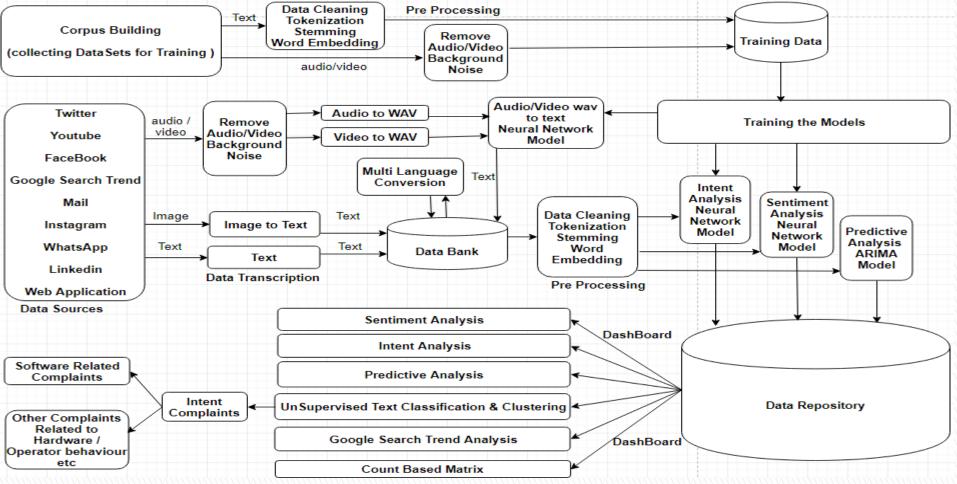
Thus, in turn Mint is expected to become a handy and time savvy tool for the Administrative officers to monitor the performance of scheme/services



Salient Features of MinT



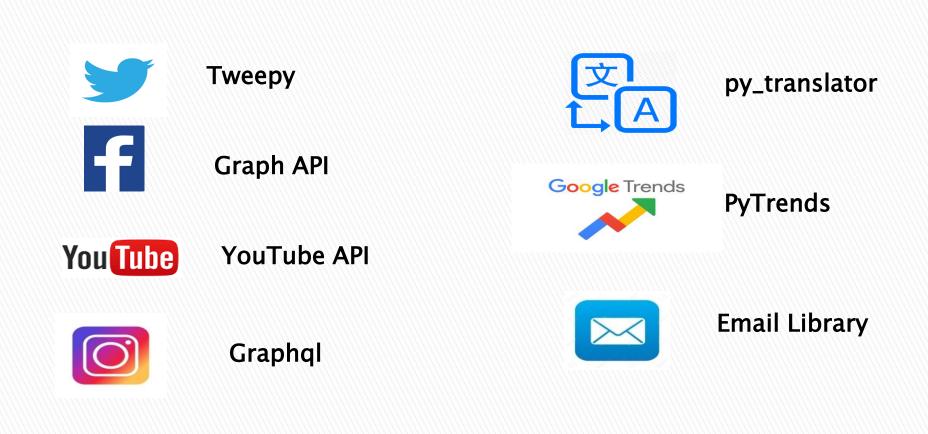
System Architecture

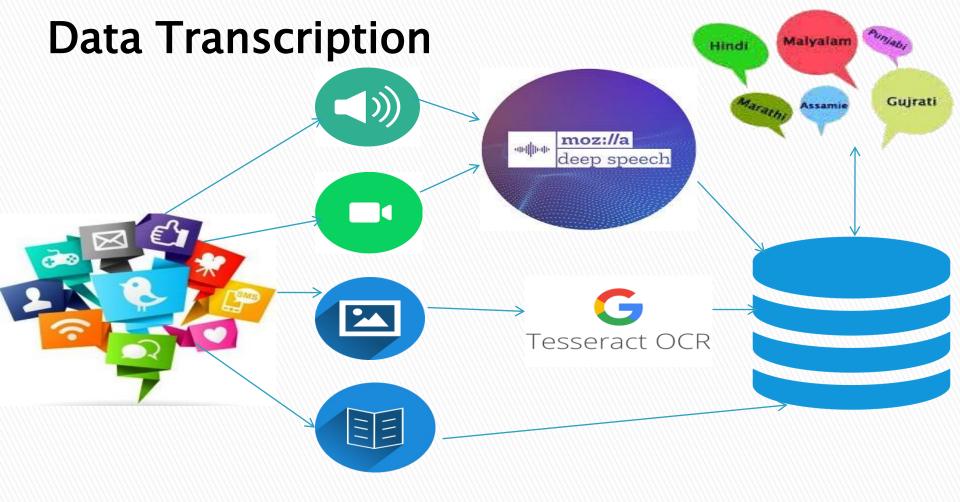


High level process flow



Data Extraction





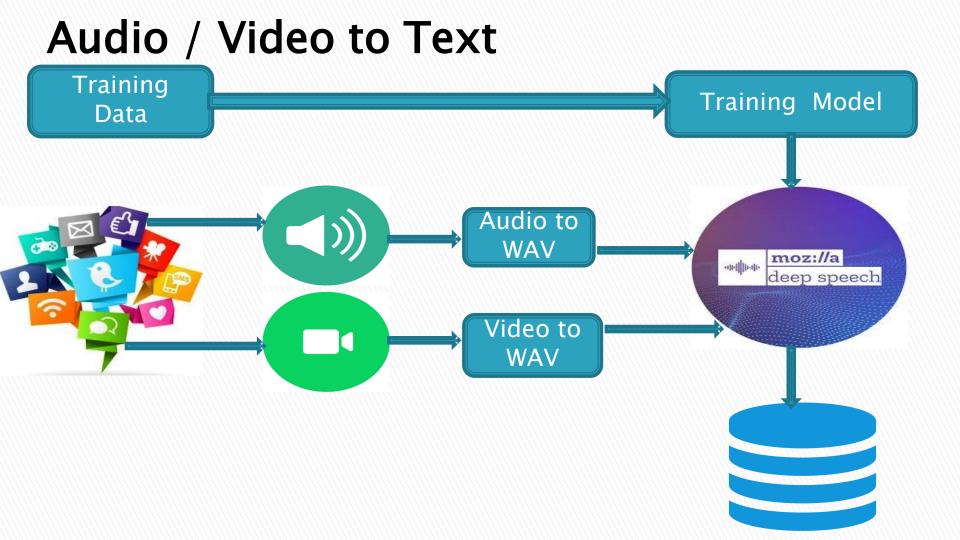
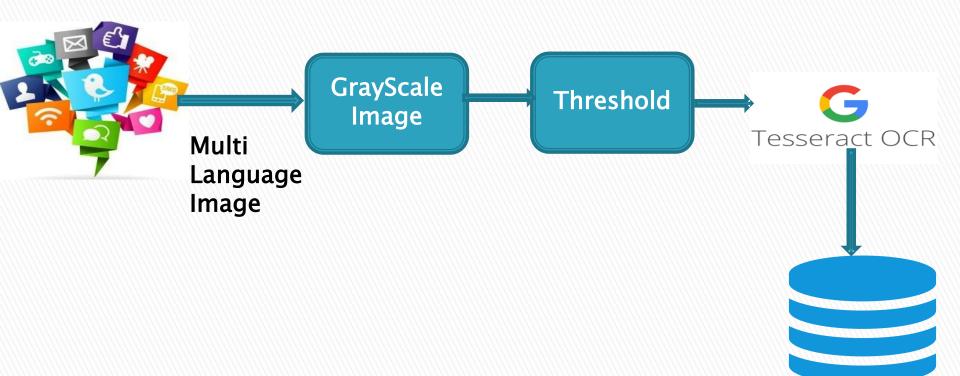
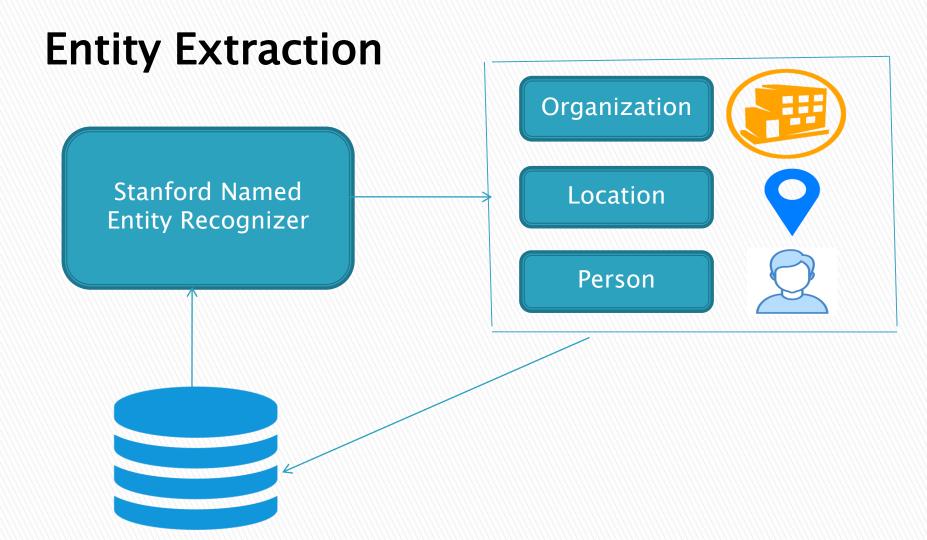


Image to Text

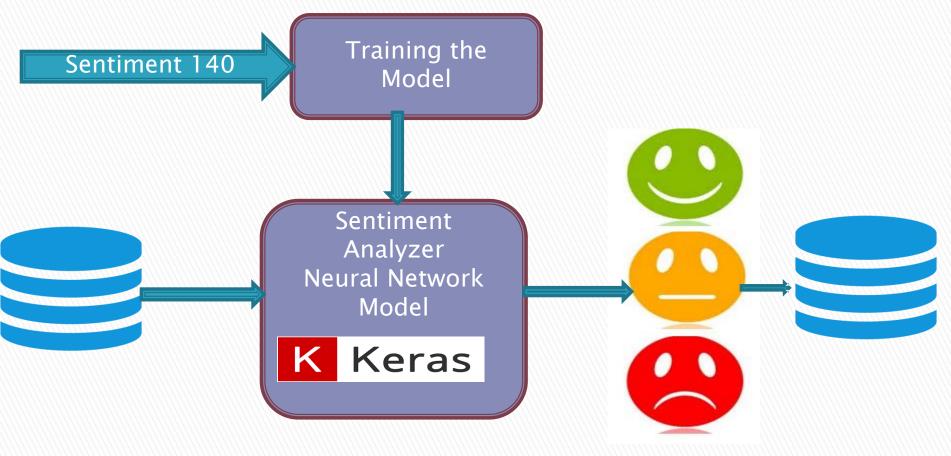


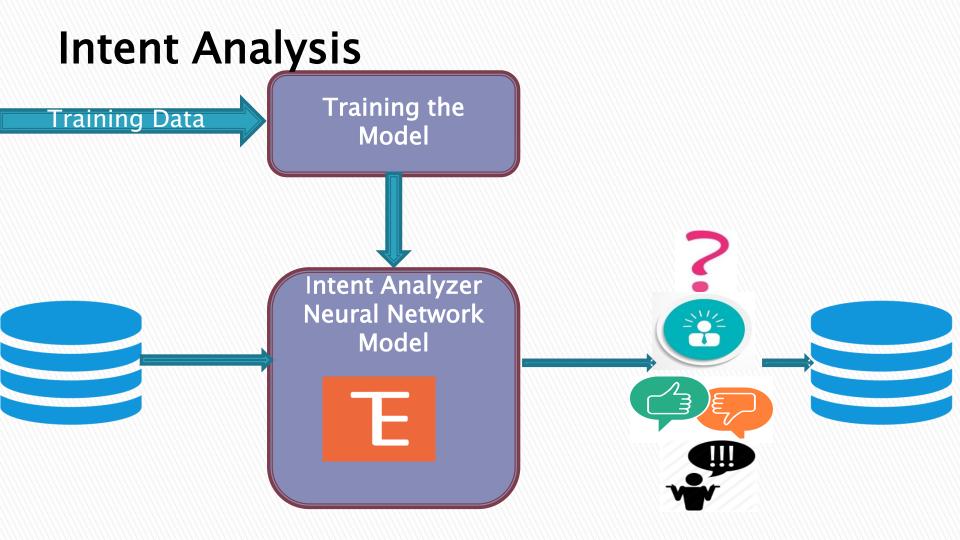
Data Analysis

- Entity Extraction
- Intent Analysis
- Sentiment Analysis
- Predictive Analysis
- Clustering

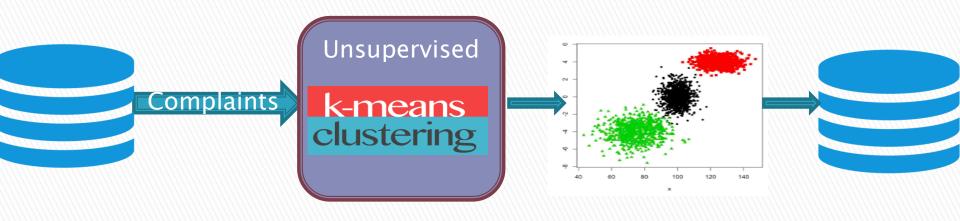


Sentiment Analysis

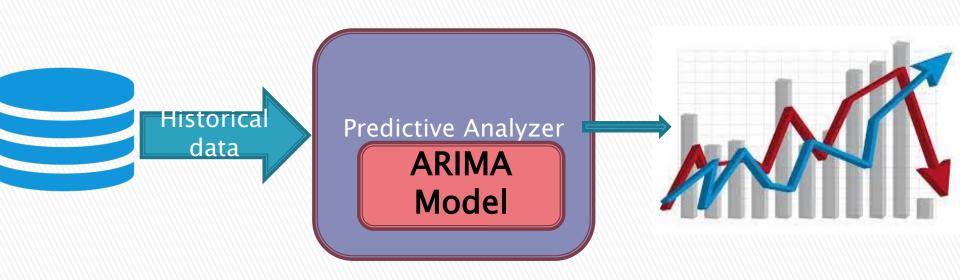




Unsupervised Clustering



Predictive Analysis



Dashboards

- Count matrices
- Time series graphs
- Classification dashboards

MinT Social Media Analyzer

Government's Reach to Social Media Audience

View Configuration Add/Update Configu Extract twitter data Extract Youtube dat Extract Mail data Extract Facebook d Extract insta	ıram d
Run Entity analyzer Run intent analyzer Run Cluster analysis Run sentiment analyze Run Google Trend anal Run Predictive a	nalyze

National Informatics Centre

MinT Social Media Analyzer

Government's Reach to Social Media Audience

Name of Department	
Pradhan Mantri Awas Yoja	r
Twitter Handle #tag	
pmay	1
Facebook Handle @tag	
pmay	
Facebook Page Id	
191735718397797	1
Facebook Page Access T	ok
EAAhHhPYaRJ8BALKvaG	v
Mail Account Id	
customermint2018@gmail	c
Mail Account Password	
Mint2018	
Youtube Search Tag	
pmay	1
Instagram Search Tag	
pmay	
Google Trend Search Tag	
pradhan mantri awas yojna	1

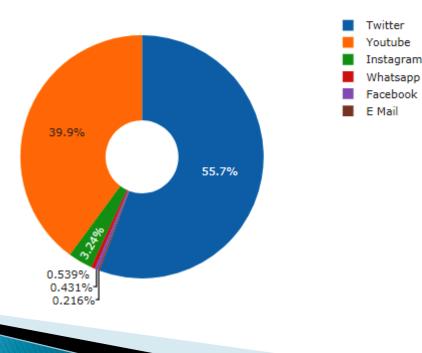
Submit

Pradhan Mantri Awas Yojana

Social Media Presence

Youtube Instagram

Social Media Presence



Popular Posts from Social Media

	Tweet	Tweeted From	Favourite Count	(2)	Comment			
	l look forward to visiting Solapur tomorrow in connection with following development works Dedication of four laning of Solapur Osmanabad section of NH 211 Foundation Stone of 30 000 houses under PMAY Launch of underground Sewerage System and three Sewage Treatment Plants भोपाल के रसुडिया गांव में रहने वाली रइंसन बी ने आसमां से बरसती आफत की बारिश के दर्द को सालों साल झेला है। कच्चे मकान में कीचड़ व कीड़े मकोड़ों के बीच जिंदगी बिताने को मजबूर हमारे गांवों के ऐसे करोड़ों परिवारों को में अपना पक्का घर पाकर इन तकलीफों से अब मुक्ति मिली है।			10905	SBI furthers the progress of Government Schemes by providing online and offi assistance to its customers Follow the official process of enrollment to avoid be deceived by fraudulent entities Visit or for more information		3643	
				1842		SBI furthers the progress of Government Schemes by providing online and offline assistance to its customers Follow the official process of enrollment to avoid being deceived by fraudulent entities Visit or for more information कया बाकई में प्रधानमंत्री आवास योजना में जनता को सिल रहे हें पनके सकान आइये पता करते हे		
	Interaction with the benefic	Maharashtra State,India	1341	न्या योज्य के प्रयोगीका जोगोल योजागी के जागता ना तिल २० १ पनम कलाग जाइय यता नरत ह सच्चाई प्रधानसंत्री आवास योजना गोसाईगंज की तारावती गौतम का पुरा हुआ अपने घर का सपना। दिया				
	कच्चे घर में छत से टपकते पान बिहार की कलौती देवी जी से ज	India 1065		-	प्रधानमंत्री जी को धन्यवाद। देखिये आप या आपके जानने वाले मोदी जी की कौन कौन सी योजनाओं का लाभ ले सकते हे Click	342		
You	Video URL	Video Title	Like Count	Comment Count		Comment	Like Count	Shares Count
	youtube.com/watch? v=dXwc_AWqDno	Pradhan Mantri Awas Yojana 2018 (PMAY) / Complete Guide / प्रधानमंत्री आवास योजना 2018	6022	1094	• 3	इस योजना से बहुत से लोगों को फायदा होगा ves it is useful scheme	2	0
	youtube.com/watch? v=NIOMVvAjGCc	How to apply PMAY online	1018	136		Sir I have no house I want a house I was a hard workar but I can not do hard work as an accident Please tel me how to apply to get this house	1	1
	youtube.com/watch? v=fl_PDg2_iEc	Eligibility Criteria and Conditions for PMAY, Who can Apply for PMAY??	773	125		I am very happy that our PM has launched a housing scheme for the needy people Those who don t have shelter can apply for the same	1	0
	youtube.com/watch? v=1NtQZ2roO7Y	PMAY Eligibility Criteria Home Loan Subsidy 2018 Apply & Refund Process	94	92				

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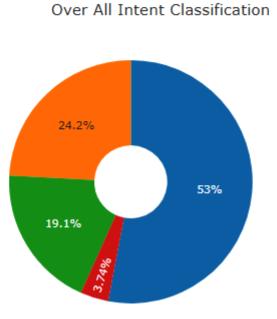
Entity Extraction Analysis : Organizations Detected

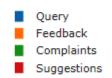
INDIABULLS FINANCIAL Pvt Ltd Axis Bank Axis Bank Aadhaar Housing Finance SBI National Informatics CentreDepartment of Electronics Information TechnologyMinistry of Communications Information Technology PMAY MSME SBI Mam BOI PMAY PMAY DHFL Development Corporation BPL Gic Bank of Baroda Central Bank of India LIG EWS Vijaya Bank BDA PMAY Haryana Govt Committee

Entity Extraction Analysis : Places Detected

Solapur Indore Ayodhya Kulgam India India Bihar Lahore Loksabha Ketan Delhi Delhi India Kolkata Kolkata Khudda India Yamuna Pune India Mumbai Maharashtra Maine India Mumbai Bihar India Nalgonda Telangana jammu Bogibeel India India Villege Delhi INDIA India Pusa Road New Delhi Ujjwala Yamuna India Indore City Hariyana Loksabha Kulgam Kyuki Nagaland Odisha Mumbai India Loksabha

Intent Analysis



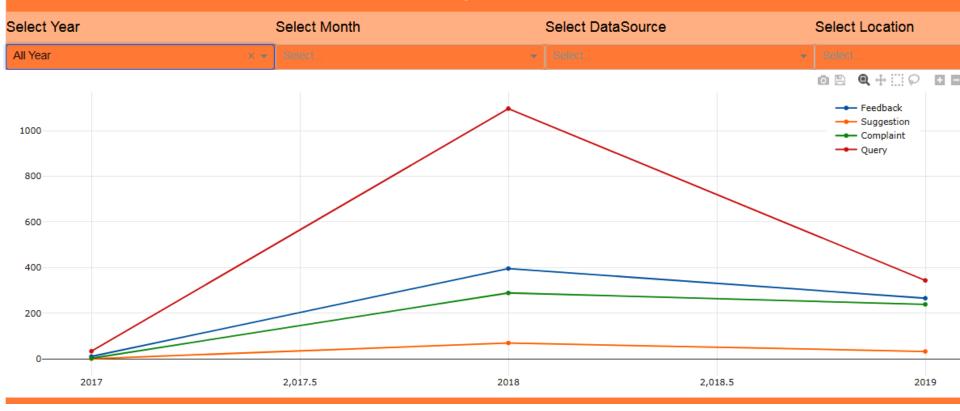


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Intent Analysis : Count Matrix Dashboard

Select Year	Select Month	Select Location			
2018 × 🗸	All Month × 🗸	All Location	× 👻		
Data Source	Total	Feedback	Query	Complaint	Suggestion
youtube	1061	233	682	40	106
twitter	684	132	360	21	171
facebook	12	2	8	0	2
instagram	73	21	39	7	6
linkedn	0	0	0	0	0
mail	6	3	0	0	3
whatsapp	15	5	7	2	1

Intent Analysis : Time series Dashboard



Intent Analysis : Text Classification Dashboard

Select Year		Select Location	
2018	× 👻	Select 👻	

FILTER ROWS

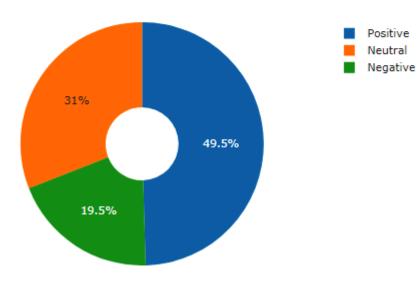
Data Source	Intent	Month	Text
twitter	complaint	December	Mr Jaitley feels that NDA govt has done reasonably well But people of
youtube	query	September	Thanks for the video Recently I have got a loan sanctioned worth 30 L
youtube	query	October	I am following in mig2 category and I have applied for home loan in Ju
youtube	complaint	October	Axis Bank says it is 2018 final disbursement has not been subsidized $\ensuremath{\underline{y}}$
youtube	query	October	Hi Could you please clear one doubt of mine That if I avail loan for 30 $\underline{\gamma}$
youtube	query	September	Hi Sir I Bir Kumar Singha ex Navy Presently serving under UAE Govt I
twitter	complaint	December	Modi has given little bit relief on income tax Also under PMAY I can no
twitter	complaint	December	I have no idea that my subsidiary will not be able to pay 3 times for 3 ti

Unsupervised Clustering : Text Classification Clustering Dashboard

Select	Year		Select Type of	Complaint	
2018		× +	Select	<u>ــــــــــــــــــــــــــــــــــــ</u>	
			Other Complaints		FILTER ROWS
			Software Complaint	ts	FILTER ROWS
	Data Source	Year	Month	Text	
	Search	Search	Search	Search	
	twitter	2018	December	PMAY subsidy scheme no re	esponse from either the bank nor from the NHB Fake p
	twitter	2018	December	I do not get what is core vote	er See PMAY was a huge success but people voted on
	youtube	2018	July	No further processing is done	e on the basis of not having a brother, Brother does no
5	youtube	2018	November	I have been entering my Aac	haar number in the field and after clicking on the checl
undo	youtube	2018	September	Its not working	

Sentiment Analysis

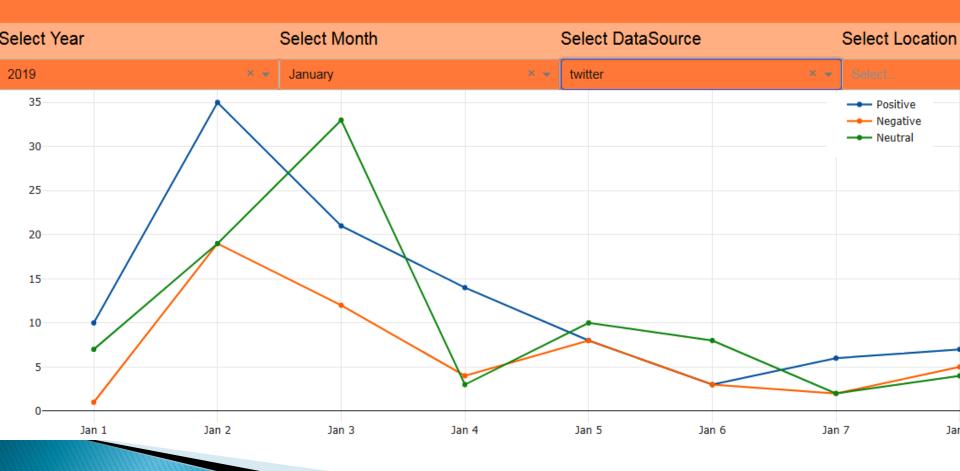
Over All Sentiment Classification



Sentiment Analysis : Count Matrix Dashboard

Select Year	ect Year Select Month Select Location			
2018	× 👻 Select	Ŧ	Select	
Data Source	Total	Positive	Negative	Neutral
youtube	233	145	36	52
twitter	132	47	31	54
facebook	2	2	0	0
instagram	21	11	2	8
linkedn	0	0	0	0
mail	3	3	0	0
whatsapp	5	5	0	0

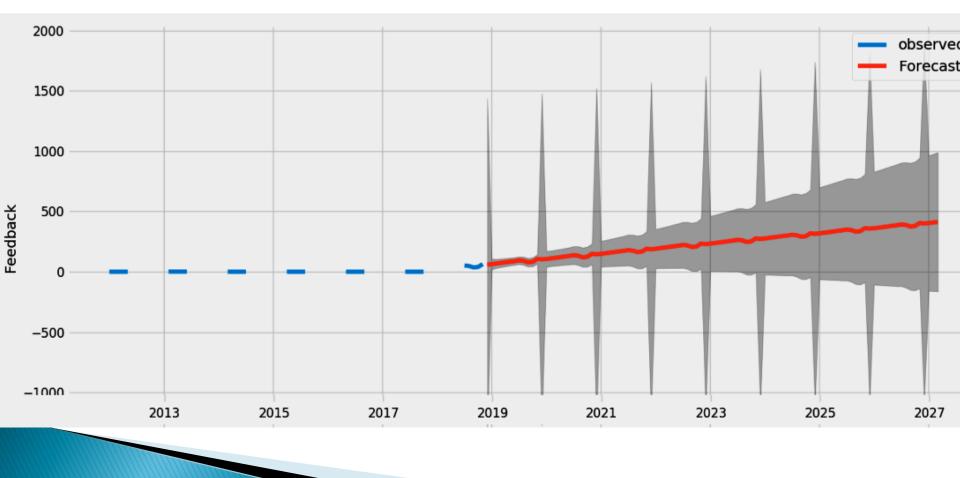
Sentiment Analysis : Time series Dashboard



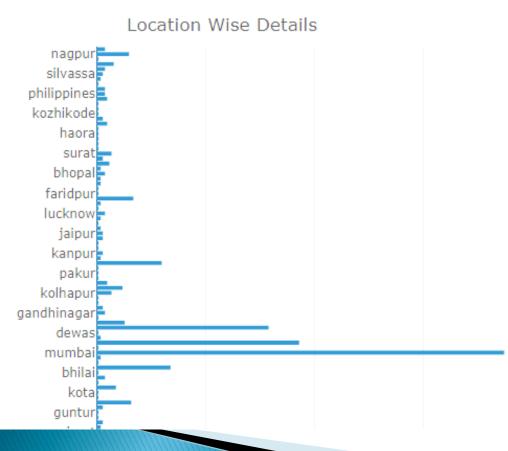
Sentiment Analysis : Text Classification Dashboard

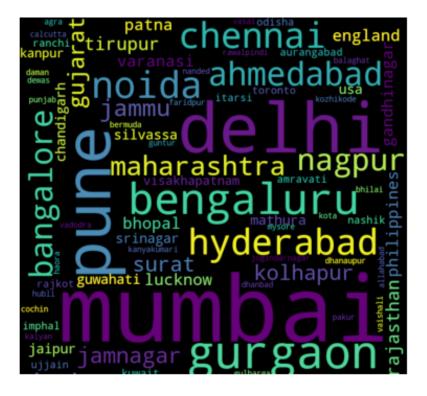
Select `	Year		Select Location			
Select		*	Select	+		
					FILTER ROWS	
	Data Source	Sentiment	Month	Text		
	youtube	positive	October	Very nice information	1	
	youtube	positive	December	very nice explanation		
	youtube	positive	September	Very nice		
	instagram	positive	November	A place enviable for its Peace and Harmony Saachi Homes Book your drea		
	twitter	negative	January	Ajay ji did not make any house based house		
	twitter	negative	January	sir Even after having my mother s name smt bhimsaniya soni age 60 years i		
	twitter	positive	January	Public relation will ce	ertainly increase the credibility of the Government. The use	

Predictive Analysis on Feedback



Location Plot





Google Trends Plot

