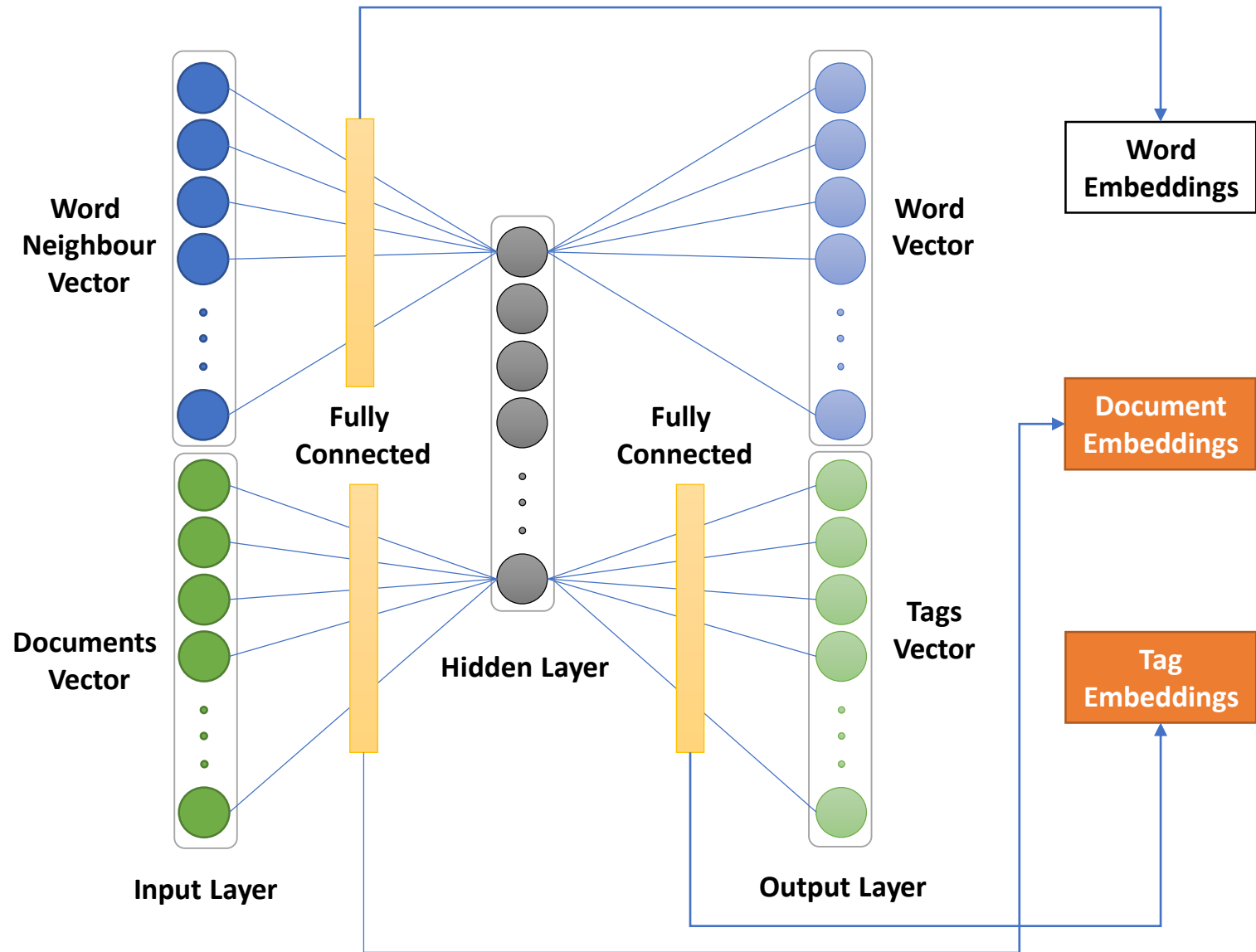
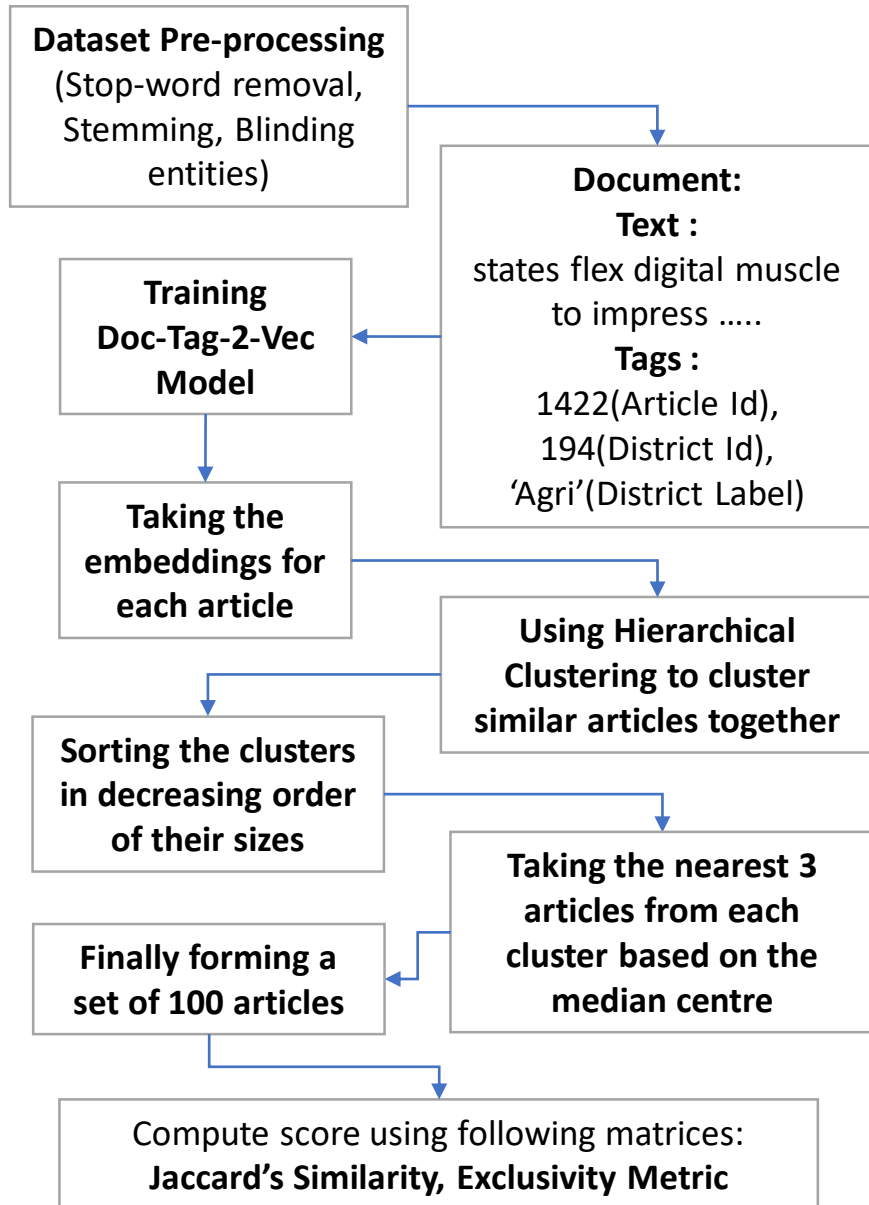


EXPERIMENT-1

Using Document Embeddings From Doc-Tag-2-Vec Model



Using Document Embeddings From Doc-Tag-2-Vec Model

	Agriculture	Development	Environment	Industrialization	Lifestyle
Jaccard's Similarity on Keywords	0.368768	0.302348	0.310856	0.333287	0.3513144
Entropy	2.90719	2.98013	2.905920	2.871511	2.928785

EXPERIMENT-1

Topics Identified

Using Document Embeddings From Doc-Tag-2-Vec Model

	Agricultural	Development	Environment	Industrialization	Lifestyle
Agri districts	Rainfall Floods Suicides Govt schemes Cultivation	MNREGA NREGA Housing Scheme Govt Fund Child deaths	Maoist activities Schools Tribal activities Pollution levels	Mining Quarrying Govt schemes Textile activities	Crimes against women H1N1 Dalit protests Tourism development plan
Non-agri districts	Rainfall Suicide Govt Schemes MNREGA	Tax Cyber hub MNREGA NREGA Other govt schemes	Reservoirs Dams Floodplains Illegal wildlife trades	Textile trades Airlines Telecom TRAI Auto vehicle sales	Swine flu Terrorism activities Cricket Internet Rape cases

Using Document Embeddings From Doc-Tag-2-Vec Model

Article Titles from Agriculture Category

Agri Districts

- Power will be diverted to farm sector: Pocharam
- Govt. sets target of 25% in agri and 30% in allied sectors
- Farmers grow green fodder to tackle shortage
- Rain throws life out of gear in T districts
- Monsoon may advance in 3 to 4 days
- Rain batters Nashik swollen Godavari floods Andhra districts
- 31 U.P. districts hit by rain, hailstorm
- State gets Rs 1,207cr drought relief package
- Mallu promises relief to flood-hit farmers of Madhira
- Farmers in Punjab Call off Agitation; Other Decide to Intensify
- Farmers organisations slam KCR government
- Cultivation area expected to increase in Medak
- 7% of land allotted for rabi under cultivation
- Agricultural crisis looms over eleven districts
- Andhra Pradesh: Elderly couple commit suicide
- Four farmers end life
- Distressed tenant farmer ends life
- Farmers dispute Nirani's claim
- SC order expected to trigger fresh wave of protests by farmers
- A road that runs through lives

Non Agri Districts

- Delhi: Monsoon arrives four days late, after 208mm of rain
- Heavy rain likely from today
- IMD declares monsoon onset over Delhi
- Mumbai schools teach students robotics and entrepreneurship
- Real estate players cry foul over metro area DP draft
- SC dismisses plea denying farmers plots
- Land sharks taking over farmland in Singur, govt looks the other way
- Alwar court acquits 6 men accused of lynching Pehlu Khan on video
- Political war breaks out after ex-soldier's suicide over OROP
- 8 cow protectors attempt suicide in Rajkot, 1 dead
- Creation of Telangana: Details emerge, Hyderabad to be a Union territory
- RS fails to transact any business on first day of session
- BJP wants govt to advance session to pass food bill
- State gets Rs 1,207cr drought relief package
- PM announces relief for rain-hit farmers, increases compensation by 50%
- Rs 1,100cr govt aid likely for farmers
- Centre launches organic farming scheme in J&K
- IGNOU to offer certificate courses in agriculture
- BHU holds entrance test against norms of Veterinary Council of India
- Only 25% families got job under MGNREGS in UP

Using Document Embeddings From Doc-Tag-2-Vec Model

Article Titles from Development Category

Agri Districts

- Heat hits MNREGS workers in North Coastal Andhra
- Heat takes a toll on Mahatma Gandhi National Rural Employment Guarantee Scheme workers
- 18 MGNREGS workers die of sunstroke in north Andhra this summer
- Dubious distinction of Krishna district
- Probe into infant selling case begins
- Maharashtra shame: More than one child dies every day in Melghat
- Women's role in getting award lauded
- Centre lauds Jharkhand govt for NREGA progress
- Chitradurga gets MNREGA national award
- Divided borough: Telangana MLA wants say in AP house too
- Concession for beneficiaries of Basava Housing Scheme
- Seemandhra to get 50k crore development fund
- Maoists torch machinery used for building roads
- Maoists raid construction firm camp in Laxmipur
- Maoists raid road-laying site, set vehicles afire
- Anna Bhagya, MNREGA doesn't stop people fleeing North Karnataka

Non Agri Districts

- Tax tweaks with eye on Make in India, GST
- Sop to set up gadget hub
- Warehousing next big thing for developers
- NREGA: Generating scams, not growth
- Misuse of MGNREGS: 24 complaints from 13 GPs
- BMC identifies 244 dilapidated structures, sends notices to
- BDD redevelopment plan to congest heart of city
- City MLAs get Rs 144 cr bonanza
- India invites Russian companies to participate in 'Make in India'
- Land allotment at Shendra to begin in Sept
- Sericulture farmers receive assistance under cluster approach
- Village selected for integrated watershed development project
- MLAs choose villages for adoption scheme
- Software exports from Coimbatore on the rise
- E-merging India plan
- Connectivity is human right, says Zuckerberg
- Land cloud falls on highway
- Centre nod to state road plan
- Electrification initiative to provide round-the-clock supply in Vellore
- Skill development programme to be extended

Using Document Embeddings From Doc-Tag-2-Vec Model

Article Titles from Environment Category

Agri Districts

- Agri wastewater enters food cycle
- Pattiseema project: A boon or bane?
- Red rebel killed in encounter
- 8 Maoists killed in encounter on Telangana-Chhattisgarh border
- Schools without children, children without schools
- The race to light up the last village
- Dropout rates: Gulbarga ZP CEO slams officials
- Now, know pollution levels in city
- Pollution board to track noise levels
- Andheri, Powai among India's 9 Quietest Urban Areas during Diwali
- Maharashtra dithers on granting villages rights over bamboo
- Tribal community to gather in full force
- Garuda rescued from Chatra
- 'Extinct' birds to fly from new habitat
- Winged friends arrive with new species, bird lovers rejoice
- Gang of poachers nabbed in Barmer
- Two arrested for hunting deer
- Sand boa selling racket busted
- Forest dept gears up to release 10K sea turtles
- 19 crocs spotted in unsafe river stretch
- 40-ft-long blue whale rescued off Maharashtra's Dapoli coast

Non Agri Districts

- Six arrested, tiger skin seized
- Couple selling fake tigers nails, paws held
- Four fined Rs 25k each for poaching deer
- Demands of adivasis will be reviewed: Chavan
- Farmers call off strike after collector's assurance
- Body formed to fight for tribal rights in state
- NMC wakes up to Nag and Pili pollution
- City's Nag river, Gosikhurd reservoir remain polluted
- Spot the river
- The message from Amritsar
- Neighbourhood watch
- China's power dynamic factor in Asia: Full text of foreign secretary
- 10,000 families defecate in open in Indore
- PMC builds 20,000 to bag first prize
- Naidu's nose for details
- Truck falls
- Offices sealed
- Watchman abducted
- Haj House on floodplain, NGT issues notices
- CRZ violation: hotel likely to be demolished
- Coastal body withheld green nod to Sea Rock plan
- A slew of events to drive home green message

Using Document Embeddings From Doc-Tag-2-Vec Model

Article Titles from Industrialization Category

Agri Districts

- ED attaches Reddy's assets worth Rs 884 cr
- CBI court officials visit Reddy's residence
- CBI raids 21 places, including houses of ex-UP minister's kin
- Court issues notice over sand mining
- Delay in sand mining pit reclamation blamed for death of three children
- Petition filed against quarrying on Vaigai
- Expert panel to make second visit to Agency areas
- Environment ministry clears projects it had once held back
- No new mining leases till June 30 in Sindhudurg
- Parties back textile bandh in Kadapa
- General strike near-total
- Normal life not affected in Ramnad, Dindigul
- DLF reduces debt by Rs 2,000 crore, launching new projects
- DLF sells prime Worli land to Lodha for Rs 2,700\xc2\xa0crore
- 'Merger of six banks to cost SBI \$250 million'
- Perambalur district on the verge of achieving total sanitation
- Himachal inching towards total sanitation target
- Diamond mineral block auctioned in Madhya Pradesh

Non Agri Districts

- VMC all set to launch waste management plan on world environment day
- BMC blames Mumbaiites for its fall to 29th place from last year's 10th
- Textile traders, powerloom units to observe bandh today
- Stir by textile traders called off as Centre stays unmoved
- Infrastructure at Kannur airport remains underutilised, says NMCC
- Airline operators adopt wait-and-watch stand
- Level flight: Charting India's airline course
- Infy net up 24.3%, disappoints Street
- Tech Mahindra may buy stake in social business startup
- Electronics park to attract Rs 1,000 cr investment
- Summit to lure investors to Mysore
- Headway on Delhi-Mumbai Industrial Corridor
- Telecom bosses give PM a call
- TRAI moots 10 per cent higher price for 1,800 MHz band
- Spectrum allocation soon
- Flat car sales during festivals a disappointment for industry
- Fuelled out Motown looking to accelerate in 2013
- Ban PET usage in formulations: Doctors
- Global retailers revive India plan
- Bharti and Future Group may take lead in luring FDI in retail

Using Document Embeddings From Doc-Tag-2-Vec Model

Article Titles from Lifestyle Category

Agri Districts

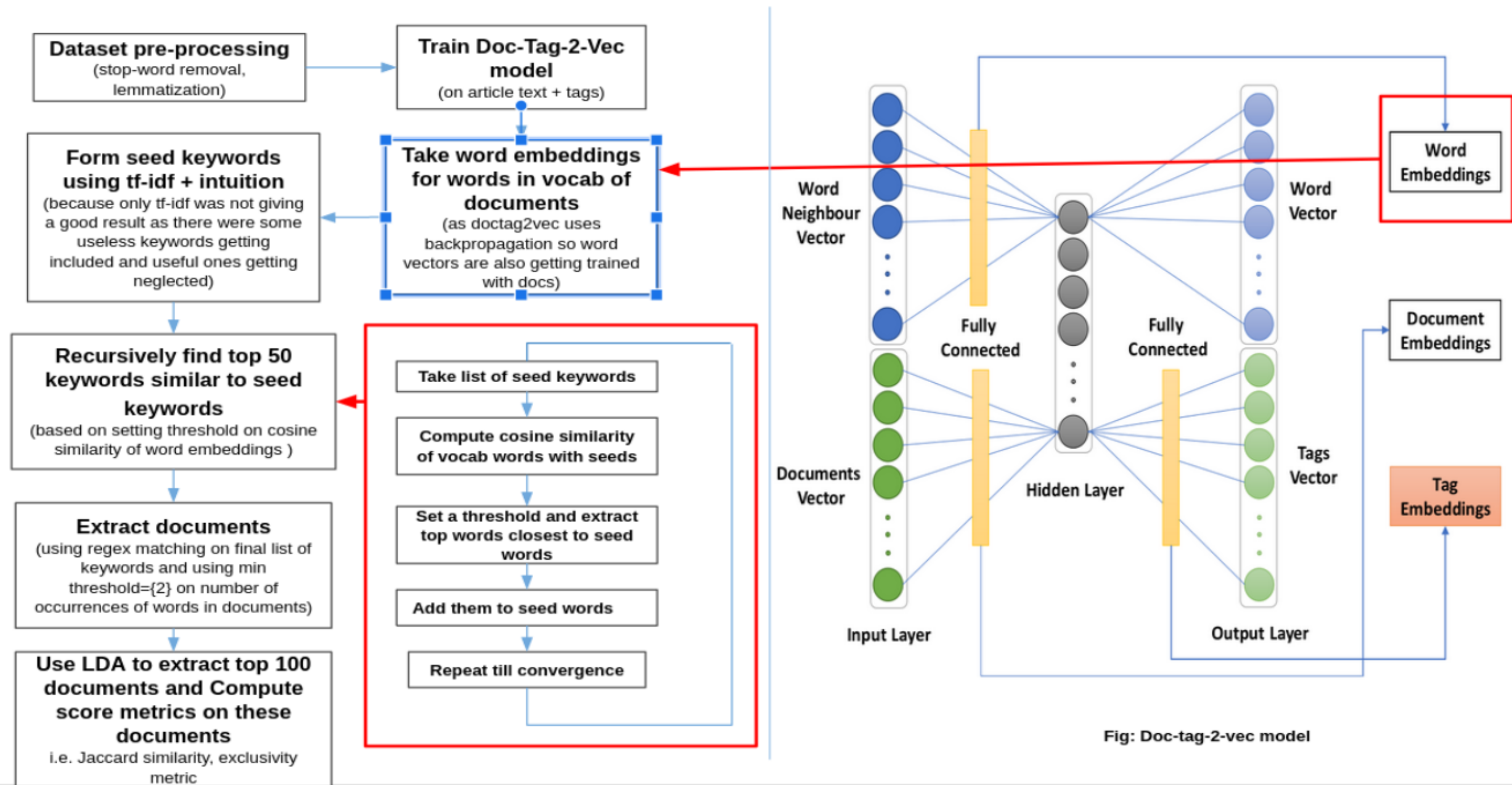
- Mapping to help police track crime in real time
- Himachal witnesses decline in crime against women
- Digitization of data on criminals to be completed within 2 months, says senior cop
- Two cases of cholera detected at Dyavappanahalli in Belur
- 24 dengue positive in Kendrapara
- H1N1 spreading to new areas: PMC analysis
- Bandh called off after violent Dalit protests in Mumbai, other parts of Maharashtra;...
- Tension in Perambalur as DMK, VCK workers indulge in violence
- Dalit protesters shut down Pune for 12 hours Transport Hit, Shops, Eateries Shut
- SIMI behind Chennai twin blasts: CB-CID
- 2006 Aurangabad arms haul case: Abu Jundal, 6 others sentenced for life
- Prabhu discusses chopper services to Ajanta Ellora
- Adventure sports at Ramtek in major tourism development plan

Non Agri Districts

- Jr docs call off strike after court rap
- Uber sues Ola for 'false bookings' Cab driver, accused of raping a woman in Delhi, arrested
- 'Look at me, I'm not asking for it, says teen behind city
- Can the internet be empowering and safe?
- Aranya Johar: My poetry may not change things per se, but it can influence someone to bring about change
- New Fair in Goa Promises Events from Shakespeare to Selfies
- A celebration of youth and talent: 3-day cultural fest ends on a high
- Vibrant India triggered the passion for photography
- Talismanic Jadeja helps India lift Champions Trophy
- IPL 2019: Drama, Debate, Destiny - Same pattern, different elements and a spicy...
- KKR look to maintain momentum against KXIP
- Equal terms of engagement
- Monsoon diseases overtake rain in city
- Swine flu claims 2 lives in city
- Delay in diagnosis worsens condition of H1N1 patients
- Nagori, nine others permanently shifted to Bhopal jail
- Mumbai police to confront Jindal with Kasab
- Alcoholic man bumps off millionaire dad for property

Experiment-2

Experiment-2 : *Using Word Embeddings From Doc-Tag-2-Vec Model*



Experiment-2 : Using Word Embeddings From Doc-Tag-2-Vec Model

Threshold = 2 on number of occurrence of keywords in top 100 document	Ind	Dev	Agri	Lifestyle	Env
Jaccard similarity on keywords	0.335955	0.313825	0.34695	0.273062	0.3181447
Entropy	7.6081062	7.842831	7.485042	7.657028	7.5569945

Experiment 2 - Agri-districts Keywords

Agri collection

Seed keywords

{'farmer','water', 'crop',
'agricultur', 'rainfal'}

- Growers
- Ryots
- Groundwater
- Forest
- Fodder
- Irrigation
- Peasant
- Horticulture

Env collection

Seed keywords

{'forest','water','land','e
nviron','farmer'}

- Grower
- Environment
- Forestland
- Rainwater
- Agriculturist
- Farmland
- Wildlife

Ind collection

Seed keywords

{'water','project','power',
'villag','plant'}

- Rainwater
- Groundwater
- Milkfood
- Light
- Programm
- Telepath
- Energen (company)
- bhonu(dish)

Dev collection

Seed keywords

{'villag','rural','panchayat',
scheme','land'}

- Panchayat
- Farmland
- Project
- Parishad
- Hamlet (one
smaller than a
village)
- Upmarket

Lifestyle collection

Seed keywords

{'villag','consum','hospit','treat
ment','govern'}

- Plot
- Farmland
- Grower
- Groundwater
- Fishery
- Property
- Ecosystem
- Ecology
- climate

Experiment 2 - Non-Agri districts Keywords

Agri collection

Seed keywords

{ 'work', 'develop', 'project',
'citi', 'govern' }

- Groundwork
- Scheme
- Pranahita (river)
- Maulsitri (tree)
- Yatra
- administration

Env collection

Seed keywords

{ 'citi', 'pollut', 'kill', 'wast',
'project' }

- Die
- Attack
- Pollution
- Assault
- Contamination
- Garbage
- Abduct
- Arrest

Ind collection

Seed keywords

{ 'industri', 'coal', 'develop',
'compani', 'poultri' }

- Firm
- Consortium
- Conglomer
(multi-industry
company)
- Ore
- Psu
- Client
- Oyster

Dev collection

Seed keywords

{ 'develop', 'citi', 'industri',
'project', 'work' }

- Programme
- Scheme
- Village
- Promote
- Trader
- Measure
- task

Lifestyle collection

Seed keywords

{ 'crime', 'die', 'citi', 'vehicle',
'health' }

- Attack
- Metropolitan
- Arrest
- Thrash
- Garbage
- Wastewater
- Sewage
- Toxic
- Sludge
- suburb

Experiment 2 - Topics identified

Collection>	Agricultural	Environment	Industrialization	Development	Lifestyle
Agri districts	<ul style="list-style-type: none"> • Rainfall and drought • Fasal Bima Yojana • Farmer loans 	<ul style="list-style-type: none"> • Animal deaths and rescues • Zoos and reserves • Floods 	<ul style="list-style-type: none"> • Land schemes • Labourer suicide • Sanitation and pollution • Rain water harvesting 	<ul style="list-style-type: none"> • Skill development and training • Rural job schemes • Smart classrooms and digital education 	<ul style="list-style-type: none"> • Farmer strikes and suicides • Rain floods and drought • Investments and amenities
Non-agri districts	<ul style="list-style-type: none"> • Farmer suicide, health issues • Crop price • Plans and benefits 	<ul style="list-style-type: none"> • Air quality index • Pollution and waste disposal • Carbon footprints 	<ul style="list-style-type: none"> • Industrial schemes • Jobs and trade • Industry scams 	<ul style="list-style-type: none"> • Make in India • Digital development • Equipments and schemes 	<ul style="list-style-type: none"> • Health issues • Crimes as robbery, sexual violence etc • Pollution

Experiment 2 - Some titles from agriculture collection

For agricultural districts:-

- Farmers plump for NPRC's new blackgram varieties
- State has enough seeds, fertilisers: Minister
- People fume as taps run dry in Pudukottai
- Swarm of grasshoppers feast on maize crop
- No takers for Fasal Bima Yojana in Mandya district
- Rain eases up, relief declared for victims
- Farmers rue fate as tomato prices crash
- Agriculture department bans gram cultivation this season
- Subsidised solar pump sets for Ramnad farmers
- Tenant farmer commits suicide
- Jagan vows to stand by farmers
- Debt, crop failure drive 10 more farmers to suicide
- Exhibition of farm technologies
- Ryot's suicide triggers protest
- Farmer leads fight against smoking
- Women ryots seek State recognition
- Minister wants waiver of crop loans
- Agricultural engineering students get hands-on experience in villages

For non-agricultural districts:-

- Onion prices up as rains cut Maharashtra's output
- Water-level in Cauvery reservoirs at low ebb
- Steep fall in prices of pulses in Indore
- No ban on cow slaughter or beef, says Kerala High Court
- Farmer worried as rare disease affects paddy crop
- Bihar's growth rate remarkable: Experts
- Onion auction at Lasalgaon up 32 per cent
- Navodaya schools a way to impose Hindi: Stalin
- Farmers seek scientific solutions to curb wild boar menace
- Onion crisis brings tears to farmers, consumers
- Floating Monuments
- Summer rains resume in Kovai, brings down temp
- Agri plan with Rs 33,000cr outlay to go on for 2 yrs
- With polls on, MP ignores demand for water from Chaurai
- Rainfall activity revives in Pune after 4-day break
- Govt to look into Ner farmer's suicide
- Mechanisation impacts ryots' cardiac health
- Farmers from Basavanbagewadi visit NTPC plant in Delhi

Experiment 2 - Some titles from development collection

For agricultural districts:-

- 49 years after Nehru dedicated Bhakra dam to nation, displaced people awaits rehabilitation
- App to monitor tiger population in 11 reserves
- Skill development centres fail to meet laid objective in the State
- Skill training claims lead to locked doors in Rajasthan
- Reaching LPG to the unreached
- 'Industries come to Nashik, what we need is investment'
- Villagers exhorted to adopt healthy lifestyle
- 'Depts. have failed to take up schemes for minorities'
- Woman entrepreneur's LED biz lights tribal folks' lives
- Vidarbha children dump school to work in cotton farms to feed their families
- Rural job guarantee scheme workers complain of low wages
- Distress sale of cattle on the rise in Raichur
- Strong grama sabhas can check graft'
- This village in Meghalaya has 'smart classrooms', access to potable water and toilets

For non-agricultural districts:-

- Skill boost for youths
- PM seeks make in India in defense sector
- Budget socially inclusive: Credai
- UT holds interactive session on Digital India
- NITI Aayog maps skill requirements, training gaps
- 'Nagpur has potential to come up as IT hub'
- Farmers exposed to water saving techniques
- Computers for public
- Government to set up panel, boost production of medical devices in India
- For better digital education, Maharashtra ties up with Nilekani's e-platform
- PM Narendra Modi flags off UDAN flight, Shimla gets wings
- Featuring smart facilities, Jaipur to be a 'Lighthouse City'
- Jharkhand future rides on hope of investments in power sector
- UGC plans to review schemes for minorities
- MoD okays indigenous defence equipment
- Government seeks report on ministries' expenditure, PM Narendra Modi's pet projects
- madurai today
- Shut liquor shops, demand Bhim women
- State spends 11,000 crore on development

Experiment 2 - Some titles from environment collection

For agricultural districts:-

- Bhopal gas tragedy: NGOs cry foul over 'secret' waste disposal
- Spotted deer found dead
- Two tigers to be shifted to Koyna
- The Nilgiris faces acute water shortage
- Six people die in Assam floods
- Woodcutters flee as task force, forest guards open fire
- Green pigeon stays as state bird
- Pros and cons of notification on tiger reserves
- Translocation of elephants from Hemavati backwaters ruled out
- Tiger found dead in Melghat reserve
- Officials told to plant targetted 25 crores saplings in the city
- Record 7 lakh saplings planted in Sircilla
- Medak waits for Godavari waters
- Goa may soon be residual waste-free
- New strategy to deal with Maoists
- Zoo may acquire lion from Junagadh, tiger from Kanpur
- Monkeys playing havoc
- Migratory birds flock Nelapattu
- Radio-collared Pong dam birds tracked to Mongolia,Caspian sea

For non-agricultural districts:-

- Roads listed for pre-Puja repair
- Debris and sludge: new building material
- Bauxite mining at Kadaladippara: Public hearing cancelled after protest
- Centre launches pilot to run two wheelers on CNG
- Delhi's air quality turns severe task force recommends heavy vehicle entry only from 6 am to 6 pm
- Budget not 'green' this time, but trees get new lease of life
- Wall of forest farmhouse razed
- MoEF serious about E-waste disposal
- No written protocol for small oil leakages: Mangrove cell
- Can he really be IIT graduate: Punjab CM on Kejriwal's claims on stubble burning
- Speaking of trees, a rare idea
- Jatayus to battle dust pollution in Delhi
- Students alone are capable of protecting environment: Mayor
- Green tribunal declines relief to Sterlite Industries
- Drop in cracker sale helps cut decibel, noxious fumes
- Now, Mumbaikars can calculate their carbon footprint online
- Eco-friendly projects biting dust as civic bodies sleep
- Ganga Sansad to begin from Garhmukteshwar
- Call for wetlands survey

Experiment 2 - Some titles from industrialization collection

For agricultural districts:-

- Janardhana Reddy made Rs 4,300 cr through illegal mining: CBI
- 'Track-doubling will boost industrial growth'
- Polluting textile unit sealed
- Rain water harvesting boon for industries during water cuts
- Poor sanitation raises a stink at Corporation meet
- Industrialists irked as Chavan announces Bangalore Mumbai Industrial Corridor
- 'Are transport vehicle fitness certificate norms followed?' HC asks
- VUDA issues notices to four real estate firms
- 'A for Adarsh,B for Bofors,C for coal,D for damaad'
- The forest that's falling prey to greed
- Land scheme for dalits a failure says study
- Liquor traders' Cup of joy overflows
- Labourer attempts suicide after killing wife, two daughters
- Ministry of Environment and Forest shocker for industries
- Illegal mining spotlight now on Tumkur

For non-agricultural districts:-

- India pushes for entry into elite nuclear groups
- iPhone & a wink, 2G Raja sells 3G
- HT Spotlight | Better air connectivity makes business fly high in Chandigarh
- Wipro buys IT unit for \$150m
- Pollution board takes U-turn within one week of notice
- New opportunities to absorb 50% laid off IT employees: Survey
- Nine years after exposure of illegal telecom exchange, CBI files charge sheet against Maran brothers
- Mining scam: Supreme Court asks SIT to probe two Karnataka ex-CMs
- Trade talk
- Trade fair begins with focus on 'Make in India'
- How to survive a financial crisis and avoid being cheated
- Samhi to acquire Premier Inn's biz
- Banks open 3 lakh new accounts for workers
- Soon, a mobile app from Trai to rate your call quality
- IT to remain net recruiter in India, automation to watch out for: Report
- Dell to partner with small businesses

Experiment 2 - Some titles from lifestyle collection

For agricultural districts:-

- Chittoor farmer strikes gold with natural farming
- Job scheme helps Titli-hit farmers pick up the threads
- Farmer ends life over crop loss
- Vijayawada's Srinivasa Nagar Bank colony a mess with poor amenities
- Fresh rain floods Nellore district
- Another farmer ends life in Madhya Pradesh, suicide toll rises to 12
- Contaminated water leaves over 150 sick in two months
- Farmer attempts suicide in front of chief minister KCR's camp office in Hyderabad
- Health workers stage demo seeking minimum wage
- Man-animal conflict disturbs tranquil Rajasthan
- A glimmer of hope for drought-hit Odisha
- New facility to test water, soil
- Diviseema boat festival kick-starts at Nagayalanka
- Industry minister encourages investment in Manipur
- Flash flood in Malkangiri
- Chittoor farmer strikes gold with natural farming
- Job scheme helps Titli-hit farmers pick up the threads
- 5 farmers were killed in 'police firing': MP home minister

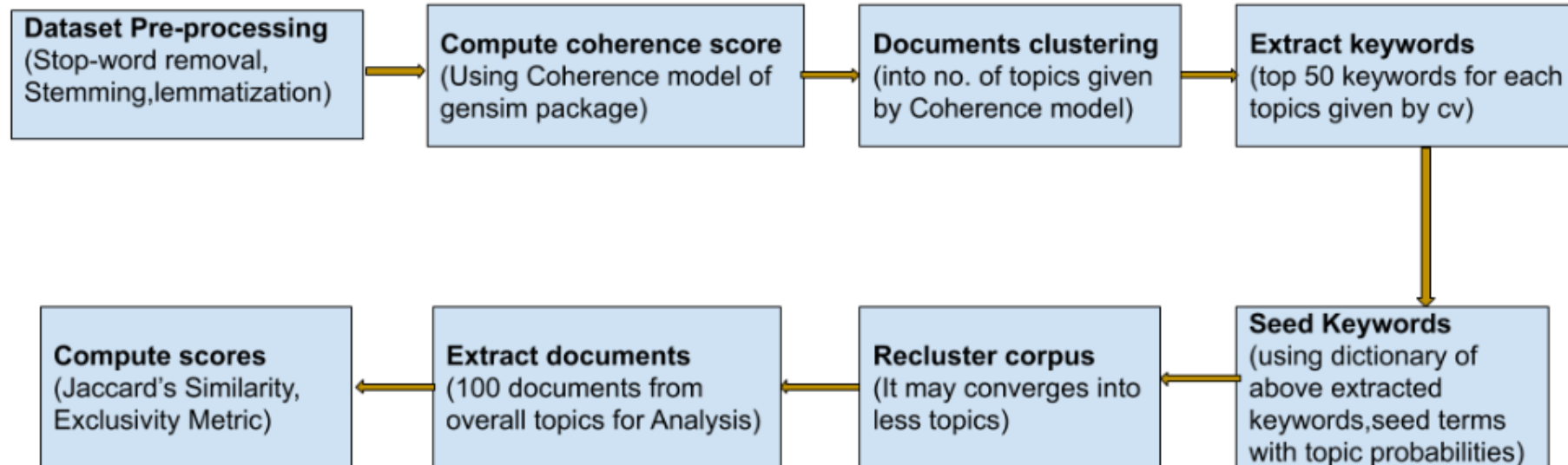
For non-agricultural districts:-

- Old city thieves caught
- Few de-addiction centres to fight Hyderabad drug addiction
- Burning of waste continues in Nashik even as health department claims imposing fines
- 'Implementation of PWDVA Act needs more teeth'
- Strife in Thailand worries tourists and trade
- Patna zoo plans 'adopt an animal' scheme
- Woman tests positive for swine flu
- School from Kerala wins science drama competition
- Provide Ebola screening facilities at Pune, Nagpur airports: HC
- Special fund for cancer patients on cards
- Underworld hand ruled out, business rivalry suspected
- Retired employee duped of Rs. 28.11 lakh; five held
- Gujarat's 'suicide capital' Rajkot among top 5 in India
- Wildlife smuggling continues in frontier areas
- Indian men lead in sexual violence, worst on gender equality: Study
- Delhi: Boy rescued from kidnapper who wanted to pay study loan
- Actor Leena Maria Paul held in Rs 20 cr fraud, M Karunanidhi 'grandson' on the run
- Woman shot at for 'resisting robbery' near Dhaula Kuan in Delhi

Experiment 3

Two Layers LDA:

- 1) First Layer: Unsupervised LDA
- 2) Second Layer : Semi- supervised LDA



Note:

The extracted keywords(automated generation) from the first layer were not saved during processing but were feeded in the second layer as seed keywords. As of now, the final output consists of clustered documents. If necessary for the comparison of keywords, I can rerun the model and get extracted keywords.

Because of UPS issues in SIT, yesterday as well as today, the results of lifestyle collection could not been updated. I'll update it as soon as possible.

Experiment 3 - Topics identified

<Collection>	Agricultural	Environment	Industrialization	Development
Agri districts	<ul style="list-style-type: none">• Rains and Deficit• Cultivation practices• Farmers suicide and protest• Government Development scheme	<ul style="list-style-type: none">• Animal poaching• NGOs• Tribes• Eco-friendly activities	<ul style="list-style-type: none">• Illegal Mining• Sand smuggling• Water issues• Infrastructure	<ul style="list-style-type: none">• Farming practices• MNREGA• Institutional Activities
Non-agri districts	<ul style="list-style-type: none">• Land encroachment• Rains and Farmers issues• Health conditions	<ul style="list-style-type: none">• Civil project• Animal plight• Waste management	<ul style="list-style-type: none">• Crime• Financial issues• Monetary values	<ul style="list-style-type: none">• Job schemes• Make in India• Crimes

Experiment 3 - Some titles from agriculture collection

For agricultural districts:-

- Downpour on radar to defeat deficit'
- After good rains, sowing gains pace in region'
- Dry spell withers Kharif hopes'
- Monsoon regain steam, more rain in offing'
- Central team visits Kolar to study drought'
- Grape exports down as cultivators prefer local market'
- Kalam sees good prospects in clean fuel for cane farmers'
- 33 farmers to get tips on organic farming'
- Mobile veterinary services for interior villages sought'
- Govt to set up 15 cold storage units for Visakhapatnam farmer
- 7% of land allotted for rabi under cultivation'
- Turmeric trading under market committee to begin in Karur'
- Nizamabad selected for insurance scheme on pilot basis'
- Pudukottai farmer reaps record harvest of alkaline samba paddy'
- State farmers hit as Kerala hotels strike against chicken prices'
- Govt seeks 3 tmcft water from Karnataka dam'
- Farmers' agitation across Maharashtra and the politics of it"
- State govt to provide 50,609 farmers across AP with borewells
- b'Tenant farmer ends life'
- b'One more farmer ends life in MP'
- Tamil Nadu Farmers Start 'Indefinite Protest'"

For non-agricultural districts:-

- 'Stay on acquisition of land for Pollachi-Dindigul NH'
- 'Delayed rains slow down sowing in Vid'
- 'Most dengue cases in Delhi till July in 5 yrs'
- 'MGNREGS workers ask authorities to disburse pending two months wages'
- Monsoon arrives with a bang, throws traffic out of gear'
- And now, dairy farmers in crisis'
- BMC runs out of space to dump drain silt'
- Spurt in H1N1 cases in Mumbai, 75% in 2 months'
- Rain assault till weekend'
- 'Residents raise alarm over encroachment in Ghasola'
- 'Urea scarcity hits delta farmers'
- 'Akali Dal to oppose land Bill'
- BMC to act against joints that serve food under rain sheds'
- 'Rajasthan inching closer to produce anti-cancer drug from olives'
- 'Cotton farmer kills self in Rajkot'
- 'Haryana farmers to hold protest for debt waiver today'

Experiment 3 - Some titles from development collection

For agricultural districts:-

- 'Additional 50 days of work under MNREGS'
- "'Lacunae fixed, MGNREGS is having very positive impact'"
- 'Sluggish monsoon boosts 1,700 NREGA works'
- 'Poultry farming a lucrative alternative'
- 'Move to increase fodder area'
- 'Nursing students bag gold medals'
- 'The Hindu Science Fest in Rajamahendravaram today'
- 'Programme on nuclear energy held in college'
- 'MGNREGA luring away labour from farm fields: study'
- 'The Hindu, Vignana varsity to host science fest'
- 'One more green initiative from Madurai blossoms'
- 'Faculty development programme concludes'
- 'Need to increase fodder cultivation area in State'
- 'Farmers choose tuberose over sugarcane in Sivaganga district'
- 'MNREGS, a dampener in Karimnagar'
- 'NREGS workforce a game-changer'

For non-agricultural districts:-

- 'Neeta Lulla to exhibit Paithani line at Make in India Week'
- 'Rural job scheme will eat into food security, claims study'
- 'Team Insaf alleges multi-crore scam in CTR courses for Dalits'
- 'ICDS goes to the rescue of minor girl'
- 'Linking health insurance to job scheme could benefit extra 1.5 cr people'
- 'Plan for minimum wage'
- 'Employment skill development programme for BHU students by Academique'
- 'FIR against builder, babu in land scam'
- 'Man arrested for raping 10-year-old'
- 'Will Sivakasi join Make in India chorus?'
- 'Dalits denied work under job scheme in Chitradurga village'
- 'Tihar inmates to get life insurance cover under Jan Dhan Yojna'
- 'Make India the largest producer of textiles, Minister tells students'
- 'Top fashion designers tailor a Make in India initiative beginning with Varanasi'
- 'Ali helped shooters flee to Bangladesh'

Experiment 3 - Some titles from environment collection

For agricultural districts:-

- 'NGO lodges FIRs for peacock, deer poaching'
- Tigress dies in MP's Balaghat
- Over 740 tribal students died in last 10 years in Maha: Report'
- 'Conference on renewable energy
- Two elephants killed by lightning near Krishnagiri'
- Drive against LPG cylinder use in autos'
- 'Pollution board proposes closure of textile park'
- Three held with jungle cat skins'
- 'Pollution watchdog initiates steps for clean air in 17 cities'
- 'Three lizard poachers arrested in Jaisalmer, 38 rare species recovered'
- 'NGO launches mission to survey water contamination'
- 'Peacocks were poisoned, says forest department'
- NGO backs solar fences around Tadoba'
- An eco-friendly and unique project'
- Tribal district move draws mixed response'
- Bahuguna asks Centre to set up CNG stations
- 'Tribal protest against acquisition of land for cement factory'
- 'BJP Adivasi yatra begins from Unai'
- 'Post-forest fire, a small boost'
- 'Poor response to eco-friendly Ganesh idols'

For non-agricultural districts:-

- 'Make parking on footpaths an offence:
- Cycling plan punctured by inaction'
- 'Centre paves way for public-private partnership model in civic projects'
- 'DMK leader Stalin to lead protest in Chennai against Centre new rules on cattle slaughter'
- Six rare turtles seized from private hospital'
- TSZP gets two pairs of Zebras from Tel Aviv'
- Single-window clearance for construction plans in Delhi'
- Supreme Court refuses to stay conduct of jallikattu'
- Maharashtra tops in solid waste generation'
- 'Red pandas, snow leopards successfully bred in captivity'
- 'Waste management report opposed'
- We just can't do without public transport'
- 'Government to rank 75 municipal areas on their performance in solid waste management'
- 'Maintain cleanliness on temple premises
- Five more lion carcasses found'
- 'Heavy metal meet kicks off in Steel City'
- Improper municipal waste management is hazardous' for human life'
- Leopard found dead near Faridabad'

Experiment 3 - Some titles from industrialization collection

For agricultural districts:-

- 'Mining baron has close ties with TDP leaders'
- CEC to review survey work in over 30 mining leases
- 'Forced to drink arsenic-laced water to slake their thirst'
- 'Andhra Tourism Minister inaugurates sand depot, hints at new policy on sand'
- 'CBI begins probe into illegal mining'
- 'Local court denies bail to illegal mining accused'
- Ambikapur: Chhattisgarh's first ODF, bin & dump free civic body"
- 'Krishna opened the floodgates of illegal mining, says NCPNR'
- 'CM Devendra Fadnavis flagship water scheme is flagging, claim govt critics'
- miners still trapped in flooded Meghalaya mine as efforts to pump out water yet to yield result'
- Sand smugglers can be booked under IPC
- Palamur major transit point for sand smuggling
- 'Old toy industry goes online
- Citizens upset over waterlogging'
- 240 infra projects hit as process to give green nod stalls in Maharashtra
- 'Builders, architects hail government sops for big townships'
- 'Radio City on an expansion spree, looks\xc2\xa0to tier-II and III cities to drive growth'

For non-agricultural districts:-

- "Kin ransack dead girl's marital home"
- In Mumbai: Former Under-19 Cricketer Drives Car on to Railway Platform, Arrested'
- 'Nallasopara resident held for obscene calls, messages'
- '18 per cent GST on recycled plastic granules leaves rag pickers in distress'
- 'Union Budget 2013: FM\ \™s CAR crashes into PSU banks'
- 'Rupee softens 6 paise against dollar'
- 'Gold crosses Rs 29K milestone, silver spurts'
- Liquidity eases a day ahead of RBI governor\ \™s city visit'
- 'Jharkhand waives VAT on mobiles below Rs 5000
- 'Textile mills cut cotton purchases from Gujarat by 40%'
- "Mutual Funds garner over Rs 70,000 crore from investors in FY'13"
- 'J&K militant-turned-trader shot dead in Sopore'
- CBI arrests serving Brigadier in CSD scam'
- 'Rupee down 13 paise vs dollar in early trade'
- Beef with investors: Haryana\ \™s ill-advised cow legislation has begun to extract an economic toll
- Rio Tinto to invest \$2 b in India'
- 'Rupee up 17 paise against dollar in early trade'

Experiment-3 : Using LDA Model

Number of occurrence of keywords in top 100 document	Ind	Dev	Agri	Env
Jaccard similarity on keywords	0.339291	0.272914	0.337601	0.280433
Entropy	7.992541	8.38541	7.882912	8.359092