

```
Training: 1251
Developement: 417
Testing: 557
```

```
Classifier name : naive bayes
```

```
Training... naive bayes
```

```
error(confusion) matrix of naive bayes
```

```
predicted index for category 1
```

	precision	recall	f1-score	support
business	0.91	0.98	0.95	88
entertainment	1.00	0.89	0.94	73
politics	0.86	0.97	0.91	69
sport	0.98	1.00	0.99	98
tech	1.00	0.90	0.95	89
micro avg	0.95	0.95	0.95	417
macro avg	0.95	0.95	0.95	417
weighted avg	0.95	0.95	0.95	417

```
naive bayes score is => 0.9371633752244165
```

Classifier name : support vector machine

Training... support vector machine

error(confusion) matrix of support vector machine

predicted index for category 1

	precision	recall	f1-score	support
business	0.97	0.97	0.97	88
entertainment	0.97	1.00	0.99	73
politics	0.97	0.97	0.97	69
sport	0.99	1.00	0.99	98
tech	1.00	0.97	0.98	89
micro avg	0.98	0.98	0.98	417
macro avg	0.98	0.98	0.98	417
weighted avg	0.98	0.98	0.98	417

support vector machine score is => 0.9748653500897666

Classifier name : k-nearest neighbour

Training... k-nearest neighbour

error(confusion) matrix of k-nearest neighbour

predicted index for category 1

	precision	recall	f1-score	support
business	0.93	0.91	0.92	88
entertainment	0.96	0.88	0.91	73
politics	0.88	0.94	0.91	69
sport	0.96	0.99	0.97	98
tech	0.98	0.98	0.98	89
micro avg	0.94	0.94	0.94	417
macro avg	0.94	0.94	0.94	417
weighted avg	0.94	0.94	0.94	417

k-nearest neighbour score is => 0.9371633752244165

Classifier name : logistic regression

Training... logistic regression

error(confusion) matrix of logistic regression  
predicted index for category 1

	precision	recall	f1-score	support
business	0.93	0.97	0.95	88
entertainment	0.99	0.96	0.97	73
politics	0.93	0.97	0.95	69
sport	0.99	1.00	0.99	98
tech	0.99	0.93	0.96	89
micro avg	0.97	0.97	0.97	417
macro avg	0.97	0.97	0.97	417
weighted avg	0.97	0.97	0.97	417

logistic regression score is => 0.9551166965888689

Classifier name : decision tree

Training... decision tree

error(confusion) matrix of decision tree  
predicted index for category 1

	precision	recall	f1-score	support
business	0.75	0.78	0.77	88
entertainment	0.83	0.82	0.83	73
politics	0.76	0.83	0.79	69
sport	0.91	0.90	0.90	98
tech	0.85	0.78	0.81	89
micro avg	0.82	0.82	0.82	417
macro avg	0.82	0.82	0.82	417
weighted avg	0.82	0.82	0.82	417

decision tree score is => 0.7809694793536804

Classifier name : randomforestclassifier

Training... randomforestclassifier

error(confusion) matrix of randomforestclassifier

predicted index for category 1

	precision	recall	f1-score	support
business	0.77	0.93	0.85	88
entertainment	0.85	0.88	0.86	73
politics	0.85	0.83	0.84	69
sport	0.94	0.96	0.95	98
tech	0.97	0.75	0.85	89
micro avg	0.87	0.87	0.87	417
macro avg	0.88	0.87	0.87	417
weighted avg	0.88	0.87	0.87	417

randomforestclassifier score is => 0.8707360861759426

max score classifier name : support vector machine and score: 0.9748653500897666

-----  
\* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)

**Breaking News** J-K Guv Orders Inquiry Into Killings of Political Activists in State - News18

**International** Priyanka Chopra's brother Siddharth's ex-fiancee Ishita moves on, celebrates new

## Trending News

## Categories



**China's war on healthcare costs lures India's biggest drugmaker - Economic Times**

By [The Times of India](#)

by Ari AltstedterSun  
Pharmaceutical Industries Ltd. is scouting for a partner in China to help it win a larger piece of the world's second-largest drug market, where the government is on a



**Priyanka Chopra's brother Siddharth's ex-fiancee Ishita moves on, celebrates new beginning with friends.... - Hindustan Times**

By [Hindustantimes.com](#)

Actor Priyanka Chopra was in India to attend her brother Siddharth Chopra's wedding, which was cancelled just days before the



**J-K Guv Orders Inquiry Into Killings of Political Activists in State - News18**

By [News18.com](#)

Srinagar: Jammu and Kashmir Governor Satya Pal Malik Sunday condemned the killing of BJP leader Gul Muhammad Mir and ordered an inquiry into the killing of political activists belonging to



### BUSINESS

**China's war on healthcare costs lures India's biggest drugmaker - Economic Times.**

Published on: 2019-05-05



### ENTERTAINMENT

**The Voice Winner: Sumit Saini Lifts the Trophy, Takes Home Prize Money of Rs 25 Lakh - News18**

Published on: 2019-05-05



### POLITICS

**Congress will not cut into UP gathbandhan's vote, will damage BJP: Priyanka Gandhi Vadra**

Published on: 2019-05-01



### TECHNOLOGY

**YouTube Music will soon be able to play songs from your local library - Beetel Bite - Technology News and Reviews**

Published on: 2019-05-05



**Tata Motors may drop small diesel cars from its portfolio - Livemint**

By [Livemint.com](#)

New Delhi: Auto major Tata Motors may phase out small diesel cars from its portfolio as demand is expected to slow down due to upcoming BS-VI emission norms that would make such vehicles expensive, according to a senior company official. Already, market lead... [+2445 chars]  
Published on: 2019-05-05



**Cyclone Fani: Toll rises to 16 in Odisha as storm weakens, Naveen Patnaik says over 45,000 volunteers... - Firstpost**

By [Firstpost.com](#)

Cyclone Fani, the worst storm to hit the Indian subcontinent in 20 years and which left at least 16 people dead in India, weakened into a 'deep depression' and lay centered over Bangladesh on Saturday morning, after it moved further north-east from West Benga... [+7120 chars]



**'Battle is over, your karma awaits you': Rahul Gandhi hits back at PM Modi over remarks against his fath - Times of India**

By [The Times of India](#)

Modi Ji, The battle is over. Your Karma awaits you. Projecting your inner beliefs about yourself onto my father wo...  
<https://t.co/Q8cxPQtToy>  
&mdash; Rahul Gandhi (@RahulGandhi) 1557035131000  
Published on: 2019-05-05

## World News



**New York Rain: Vintage Sights and Sounds of a Soaked City**

Published on: 2019-05-05

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### Arsenic-breathing microbes discovered in Pacific Ocean - The Tribune

By [TribuneIndia.com](#)

WASHINGTON Scientists have discovered microorganisms breathing arsenic—a deadly poison for most living things—in the low-oxygen parts of the Pacific Ocean. The researchers from the University of Washington (UW) in the US analysed seawater samples from a re... [+2438 chars]

Published on: 2019-05-05



### Klopp Unsure About Salah after Head Injury, Firmino to Miss Barcelona Clash - News18

By [News18.com](#)

Newcastle: Liverpool will be without their Brazilian forward Roberto Firmino for Tuesday's Champions League semi-final second leg against Barcelona at Anfield, manager Juergen Klopp said on Saturday. Klopp could also be without another key forward in Mohamed S... [+1371 chars]

Published on: 2019-05-05



### Fans Come Up With ROFL 'Game Of Thrones' Memes And Others To Troll SRH After Loss To RCB - NDTVSports.com

By [Ndtv.com](#)

SunRisers Hyderabad's hopes of qualifying for the IPL 2019 playoffs hang by a thread after a defeat to Royal Challengers Bangalore (RCB) on Saturday night. SRH lost their final league game of the season which means they would need Mumbai Indians to beat Kolkata... [+2922 chars]

Published on: 2019-05-05



### The Sunday school children: The little-known tragedy of the Sri Lankan Easter attacks

Published on: 2019-05-05



### 11 of Our Best Weekend Reads

Published on: 2019-05-05



127.0.0.1:5000/recommendation.html/11

```
prediction = {0:'Business',1:'Entertainment',2:'Politics',3:'Sports',4:'Technology'}
```

Classifier name: naive bayes  
predicted category: [3]

Classifier name: support vector machine  
predicted category: [3]

Classifier name: k-nearest neighbour  
predicted category: [3]

Classifier name: logistic regression  
predicted category: [3]

Classifier name: decision tree  
predicted category: [1]

Classifier name: randomforestclassifier  
predicted category: [3]

prediction list: Counter({3: 5, 1: 1})

final predicted category: 3  
category of selected article: Sports

Similarity Score [*]	[[0.	0.02849786	0.	0.01947773	0.	0.04182213
	0.0548729	0.02245389	0.	0.05392585	0.98396349	
	0.	0.	0.01963034	0.	0.01832508	0.1034995
	0.	0.	]]			

indexes: [11, 17, 6, 10, 5, 1, 7, 14, 3, 16, 19, 2, 4, 9, 8, 18, 12, 13, 15, 0]

values: [1.0000000000000001, 0.04710668225528999, 0.028109916718339394, 0.02802577546654774, 0.025709287391730156, 0.025394100838716977, 0.021381383828730973, 0.020803629524145294, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0]



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**International** New York Rain: Vintage Sights and Sounds of a Soaked City

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## Fans Come Up With ROFL 'Game Of Thrones' Memes And Others To Troll SRH After Loss To RCB - NDTVSports.com

By [Ndtv.com](#)

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Published on:2019-05-05

## Categories



**BUSINESS**  
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Published on: 2019-05-05



**ENTERTAINMENT**  
The Voice Winner: Sumit Saini Lifts the Trophy, Takes Home Prize Money of Rs 25 Lakh - News18

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**POLITICS**  
Congress will not cut into UP gathbandhan's vote, will damage BJP: Priyanka Gandhi Vadra

Published on: 2019-05-01



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Riqui Puig: Barcelona boss Ernesto Valverde is 'a crack as a manager' - Barca Blaugranes

Published on: 2019-05-05



**TECHNOLOGY**  
YouTube Music will soon be able to play songs from your local library - Beetel Bite - Technology News and Reviews

Published on: 2019-05-05

## World News



## Watch: Virat Kohli Mocks Khaleel Ahmed By Impersonating His Wicket Celebration - NDTVSports.com

By [Ndtv.com](https://www.ndtv.com)

Virat Kohli yet again failed to make a contribution with the bat as Khaleel Ahmed sent him packing in the second over but, for a change, despite the batting failures of Kohli and AB de Villiers, RCB managed to register a rare win in IPL 2019. Victory seemed i... [+1907 chars]

Published on:2019-05-05



## IPL 2019 qualification scenarios updated: What SRH, K..ffs with MI, DC and CSK fighting to finish in top two - Firstpost

By [Firstpost.com](https://www.firstpost.com)



## IPL 2019 qualification scenarios updated: What SRH, K..ffs with MI, DC and CSK fighting to finish in top two - Firstpost

By [Firstpost.com](#)

Mumbai Indians' win over Sunrisers Hyderabad made them the third team to qualify for the Play-offs. Which leaves four teams fighting for a place in the top four with Royal Challengers having being knocked out. Here's what the other teams need to do to qualify... [+3027 chars]



## Anushka Sharma and Virat Kohli return to Mumbai from Bengaluru; see pics - PINKVILLA

By [Pinkvilla.com](#)

Anushka Sharma and Virat Kohli were snapped at the Mumbai airport today. The couple returned from Bengaluru where they had gone for Royal Challengers Bangalore's match against Sun Risers Hyderabad which was held yesterday. Virat's team RCB won the match by 4 ... [+1044 chars]

## Categories

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