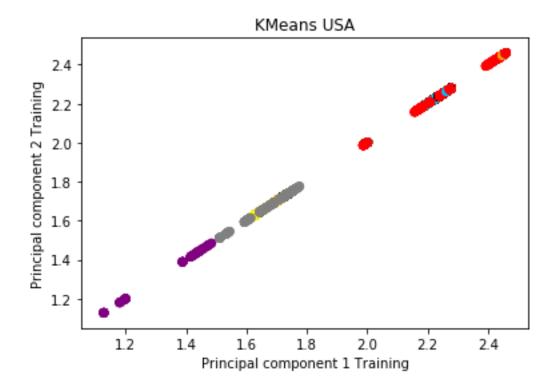
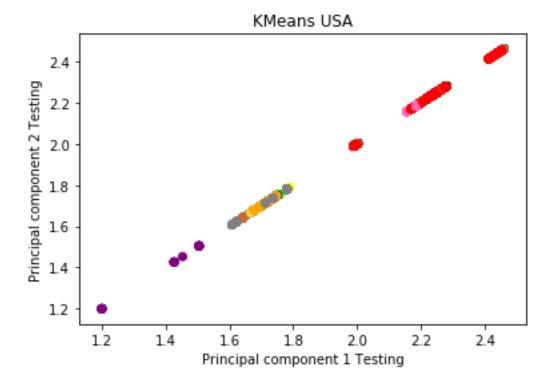
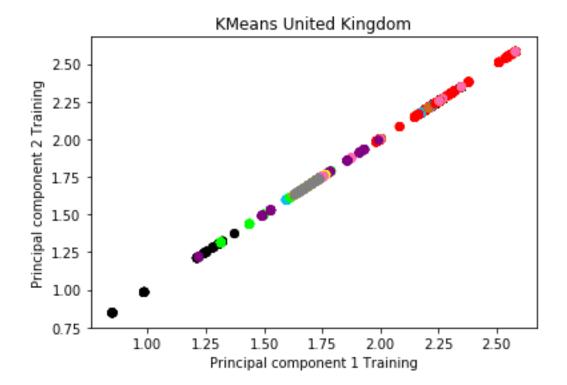
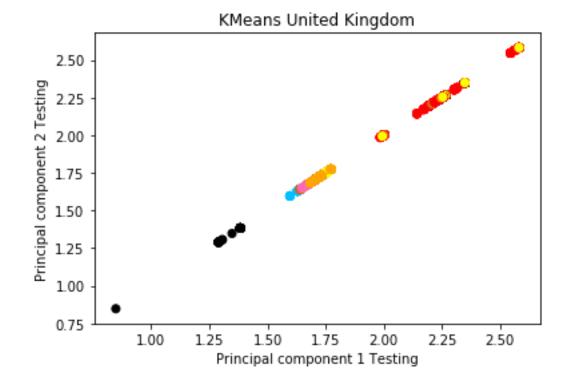
Trending YouTube Data Poster

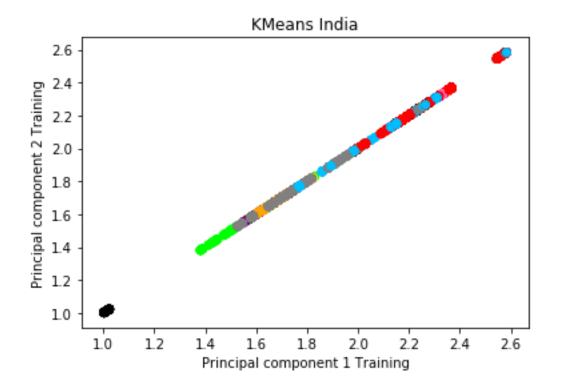
By: Eric Dogariu

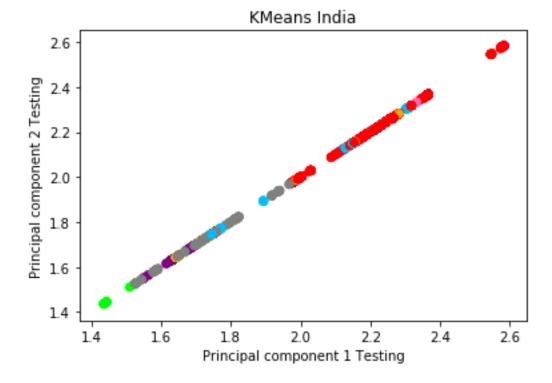


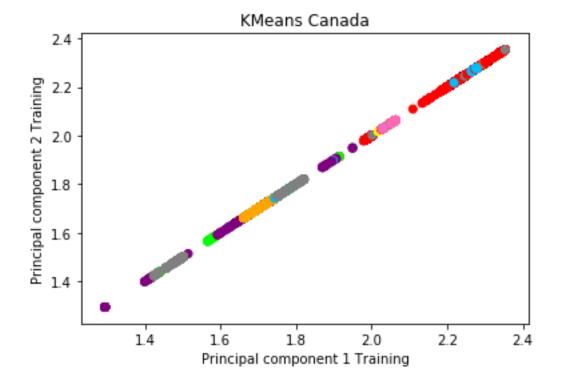


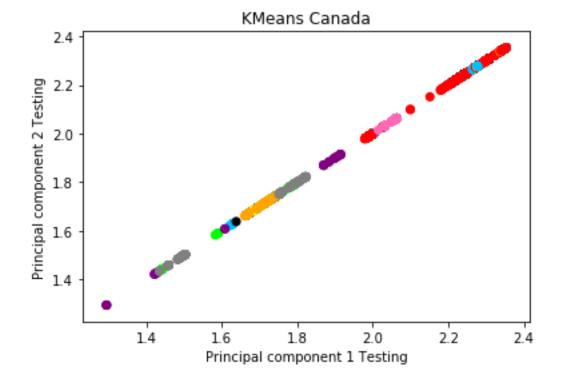












Number	Country	Title	Channel Title	Popularity
1	Canada	YouTube Rewind: The Shape of 2017	YouTube Spotlight	145126668
2	Canada	Childish Gambino - This Is America	ChildishGambinoVEVO	111079833
1	India	YouTube Rewind: The Shape of 2017	YouTube Spotlight	132518125
2	India	Marvel Studios' Avengers: Infinity War Official Trailer	Marvel Studios' Avengers: Infinity War Official Trailer	100841285
1	UK	Nicky Jam x J. Balvin - X (EQUIS)	NickyJamTV	435415656
2	UK	Te Bote Remix - Casper, Nio Garcia,	Flow La Movie	347510347
1	USA	Childish Gambino - This Is America	ChildishGambinoVEVO	244966023
2	USA	Ariana Grande - No Tears Left To Cry	ArianaGrandeVevo	161032050

Table 1: Top 2 Distinct Most Popular Videos

Model	Country	Num	SilScore	LLGM	LLPSGM	AIC	AICPS	BIC	BICPS
KM	Canada	10	0.92	42.10	0.0053	-673219.30	-84.037	-668613.83	-83.46
KM	India	10	0.84	37.33	0.0052	-532082.82	-74.48	-527552.83	-73.85
KM	UK	10	0.93	44.93	0.0059	-683707.55	-89.68	-679134.72	-89.08
KM	USA	10	0.94	42.02	0.0052	-674808.30	-83.87	-670199.96	-83.30
LDA	Canada	10	N/A	29.49	0.0037	-471208.92	-58.82	-466603.45	-58.25
LDA	India	10	N/A	29.63	0.0041	-422051.89	-59.078	-417521.90	-58.44
LDA	UK	10	N/A	28.61	0.0038	-434855.89	-57.038	-430283.05	-56.44
LDA	USA	10	N/A	27.31	0.0034	-438188.07	-54.46	-433579.73	-53.89

Table 2: Unsupervised Analysis Results

Regressor	M	NF	Country	MSE	R2	EVS
GBR	KM	40	Canada	18476979351729.96	-0.0021	4.14e-05
RFR	KM	40	Canada	18477673029296.61	-0.0021	3.87e-05
GBR	LDA	40	Canada	18476918932960.39	-0.0021	4.35e-05
RFR	LDA	40	Canada	18473944551390.35	-0.0019	4.38e-05
GBR	KM	40	India	9874449425716.26	-0.0080	6.41e-05
RFR	KM	40	India	9869487114204.77	-0.0075	6.43-05
GBR	LDA	40	India	9874439119625.94	-0.0080	6.50e-05
RFR	LDA	40	India	9871376967319.38	-0.0077	6.71e-05
GBR	KM	40	UK	733878513079887.20	-0.04457	0.00050
RFR	KM	40	UK	734093158341149.00	-0.0449	0.00048
GBR	LDA	40	UK	733696751912559.50	-0.04431	0.00093
RFR	LDA	40	UK	734063825080816.80	-0.0448	0.00037
GBR	KM	40	USA	214674949552417.00	-0.0664	-7.13e-05
RFR	KM	40	USA	214605333146567.28	-0.0660	-7.70e-05
GBR	LDA	40	USA	214684580296477.50	-0.0664	-3.81e-06
RFR	LDA	40	USA	214626181042848.03	-0.0661	-0.00034

Table 3: Popularity Supervised Analysis Results

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Acknowledgments

- (1) @dataset title=Trending YouTube Video Statistics, author=Mitchell J, author username =DataSnaek, website = https://www.kaggle.com/datasnaek/youtube-new
- (2) @API title=YouTube API, author=YouTube, website = https://developers.google.com/youtube/v3/
- (3) @program title=Trending-YouTube-Scraper, author=Mitchell J, author username =DataSnaek, website = https://github.com/DataSnaek/Trending-YouTube-Scraper
- (4) @articlescikit-learn, title=Scikit-learn: Machine Learning in Python, author=Pedregosa, F. and Varoquaux, G. and Gramfort, A. and Michel, V. and Thirion, B. and Grisel, O. and Blondel, M. and Prettenhofer, P. and Weiss, R. and Dubourg, V. and Vanderplas, J. and Passos, A. and Cournapeau, D. and Brucher, M. and Perrot, M. and Duchesnay, E., journal=Journal of Machine Learning Research, volume=12, pages=2825–2830, year=2011, website = https://scikit-learn.org/stable/and https://scikit-learn.org/stable/user-guide.html
- (5) @inproceedingssklearn-api, author = Lars Buitinck and Gilles Louppe and Mathieu Blondel and Fabian Pedregosa and Andreas Mueller and Olivier Grisel and Vlad Niculae and Peter Prettenhofer and Alexandre Gramfort and Jaques Grobler and Robert Layton and Jake VanderPlas and Arnaud Joly and Brian Holt and Gaël Varoquaux, title = API design for machine learning software: experiences from the scikit-learn project, booktitle = ECML PKDD Workshop: Languages for Data Mining and Machine Learning, year = 2013, pages = 108–122, website = https://scikit-learn.org/stable/and https://scikit-learn.org/stable/user-guide.html
- (6) @bookauthor = Kevin P. Murphy, title = Machine Learning : A Probabilistic Perspective, publisher = MIT Press, year = 2012, online publisher = ProQuest Ebook Centra website = https://ebookcentral.proquest.com/lib/princeton/detail.action?docID=3339490
- (7) @homework title=Previous Homework Code
- (8) @class title=Lecture Notes
- (9) @class title=Precept Material

(10) @Misc, author = Eric Jones and Travis Oliphant and Pearu Peterson and others, title = SciPy: Open source scientific tools for Python, year = 2001-, url = "http://www.scipy.org/", note = [Online; accessed ¡today;]