

H-1B Ready

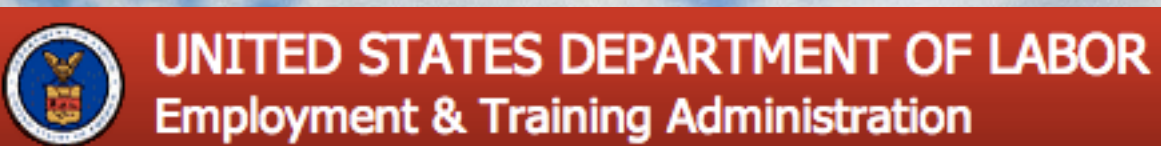
Anticipating foreign visa demand!

How many H-1B work visa applications should we expect based on how the economy has been doing?

Anne Bauer

H-1B Data

- Dept of Labor FLC filings by hiring companies
- Publicly available on various government websites



LCA Programs (H-1B, H-1B1, E-3)

Fiscal Year	Disclosure File	File Structure
2014	H1B_FY2014.xls	H1B_Record_Layout_FY14.doc
2013	LCA_FY2013.xlsx	LCA_Record_Layout_FY13.doc
2012	LCA_FY2012.xlsx	LCA_Record_Layout_FY12.doc
2011	LCA_FY2011.xlsx	LCA_Record_Layout_FY11.doc
2010	LCA_FY2010.xlsx	LCA_Record_Layout_FY10.doc
2009	LCA_iCert_FY2009.xlsx	H-1B_Record_Layout_FY09.doc
2009 ⁽¹⁾	LCA_eFile_FY2009.xlsx	H-1B Efile Record Layout FY09.doc
2008	LCA_FY2008.xlsx	H-1B_Record_Layout_FY08.doc

Foreign Labor Certification Data Center Online Wage Library

www.flcdatcenter.com

Discontinued Systems

H-1B Fax System Data

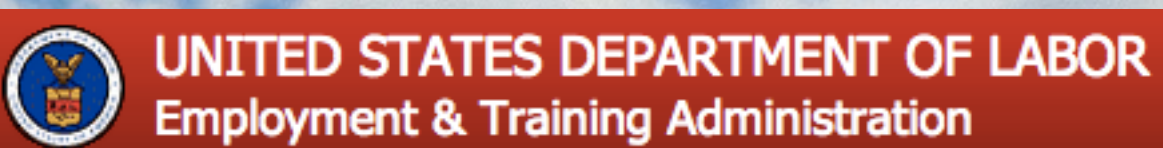
2007 No Fax Data Available
2006 [mdb](#) [txt](#)
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2002 [mdb](#) [txt](#)
2001 [mdb](#) [txt](#)

H-1B Efile Data

2007 [mdb](#) [txt](#)
2006 [mdb](#) [txt](#)
2005 [mdb](#) [txt](#)
2004 [mdb](#) [txt](#)
2003 [mdb](#) [txt](#)
2002 [mdb](#) [txt](#)
2001 No EFile Data Available

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2010	LCA_FY2010.xlsx	LCA_Record_Layout_FY10.doc
2009	LCA_iCert_FY2009.xlsx	H-1B_Record_Layout_FY09.doc
2009 ⁽¹⁾	LCA_eFile_FY2009.xlsx	H-1B_Record_Layout_FY09.doc
2008	LCA_FY2008.xlsx	H-1B_Record_Layout_FY08.doc

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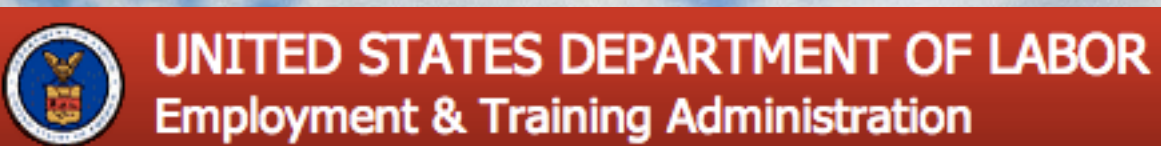
The data are available for download by fiscal year (October to September) in Microsoft Access or comma delimited text format. To speed up the download process the data are in ZIP files, however the files are still very large, and can take 2 hours or more to download using a dial-up connection. A ZIP file utility is necessary to extract the files. [How to view Zip files.](#)

2006 [mdb](#) [txt](#)
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2011	LCA_FY2011.xlsx	LCA_Record_Layout_FY11.doc

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2010					
2009					
2009 ⁽¹⁾					
2008	LCA_FY2008.xlsx	H-1B_Record_Layout_FY08.doc	2007 No Fax Data Available	2007 mdb txt	
			2006 mdb txt	2006 mdb txt	
			2005 mdb txt	2005 mdb txt	
			2004 mdb txt	2004 mdb txt	
			2003 mdb txt	2003 mdb txt	
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Please note that 2011-2012 and later updates represent a break in the series. The wage file has been updated to the Standard Occupational Classification rev. 2010, and there are minor changes to the geographic definitions as well as a major update to the corresponding O*Net information.

Fiscal Year	Disclosure File	File Structure
⁽¹⁾ In FY 2009 the iCert Visa Portal System replaced the H-1B Legacy System. Consequently, two FY 2009 H-1B data disclosure files were published-the "H-1B Case Data FY2009" file for applications processed through the iCERT Visa Portal System beginning on April 15, 2009 and the "H-1B Efile Case Data FY2009" file for applications processed through the H-1B Legacy System.		
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2010		
2009		
2009 ⁽¹⁾		
2008	LCA_FY2008.xlsx	H-1B_Record_Layout_FY08.doc
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2006		2006 mdb txt
2005		2005 mdb txt
2004		2004 mdb txt
2003		2003 mdb txt
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2009		
2009 ⁽¹⁾		
2008	LCA_FY2008.xlsx	H-1B_Record_Layout_FY08.doc
	2007 No Fax Data Available	2007 mdb txt
	2006 mdb txt	2006 mdb txt
	2005 mdb txt	2005 mdb txt
October 1 through September 30 period (all disclosure data sets are saved in the Microsoft Excel (.xls) file format). Each data set is cumulative, containing unique records identified by the applicable OFLC case number, and any noticeable typographical or other data anomalies may be due to internal data entry or other external customer errors in completing the application form.		
	2001 mdb txt	2001 No EFile Data Available

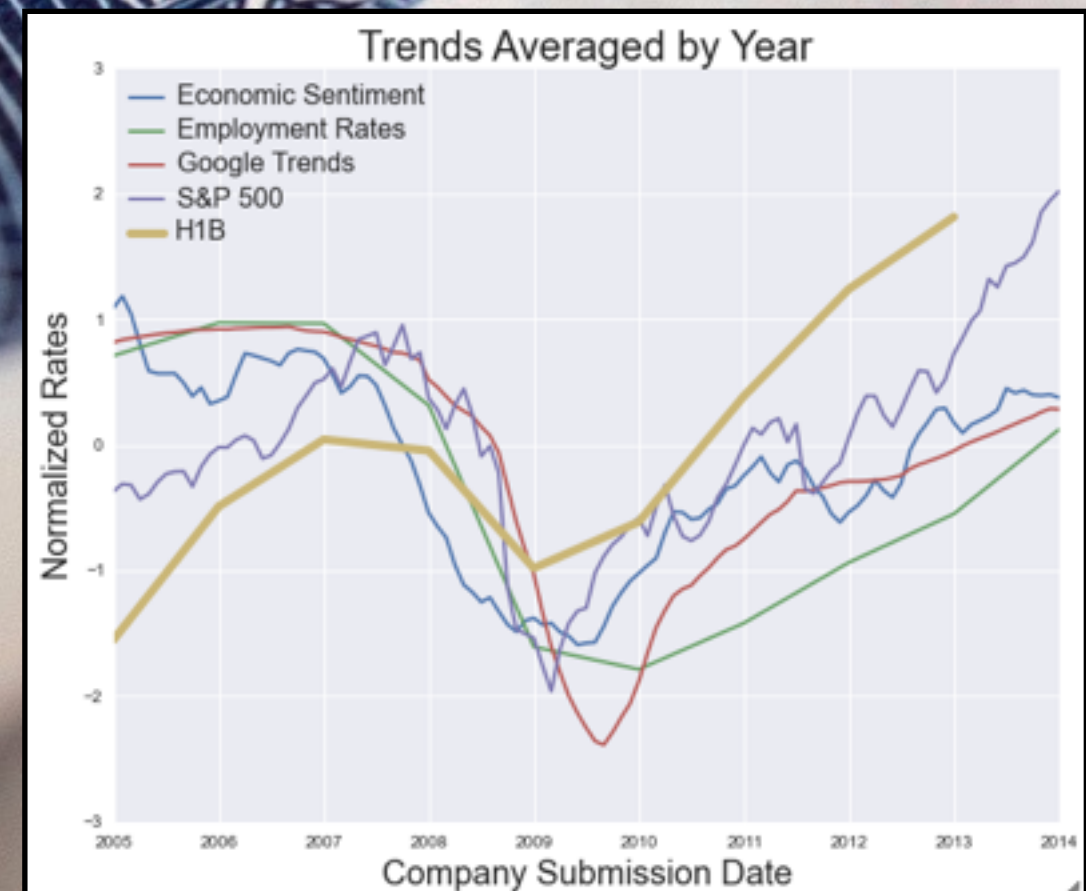
The Model

Features:

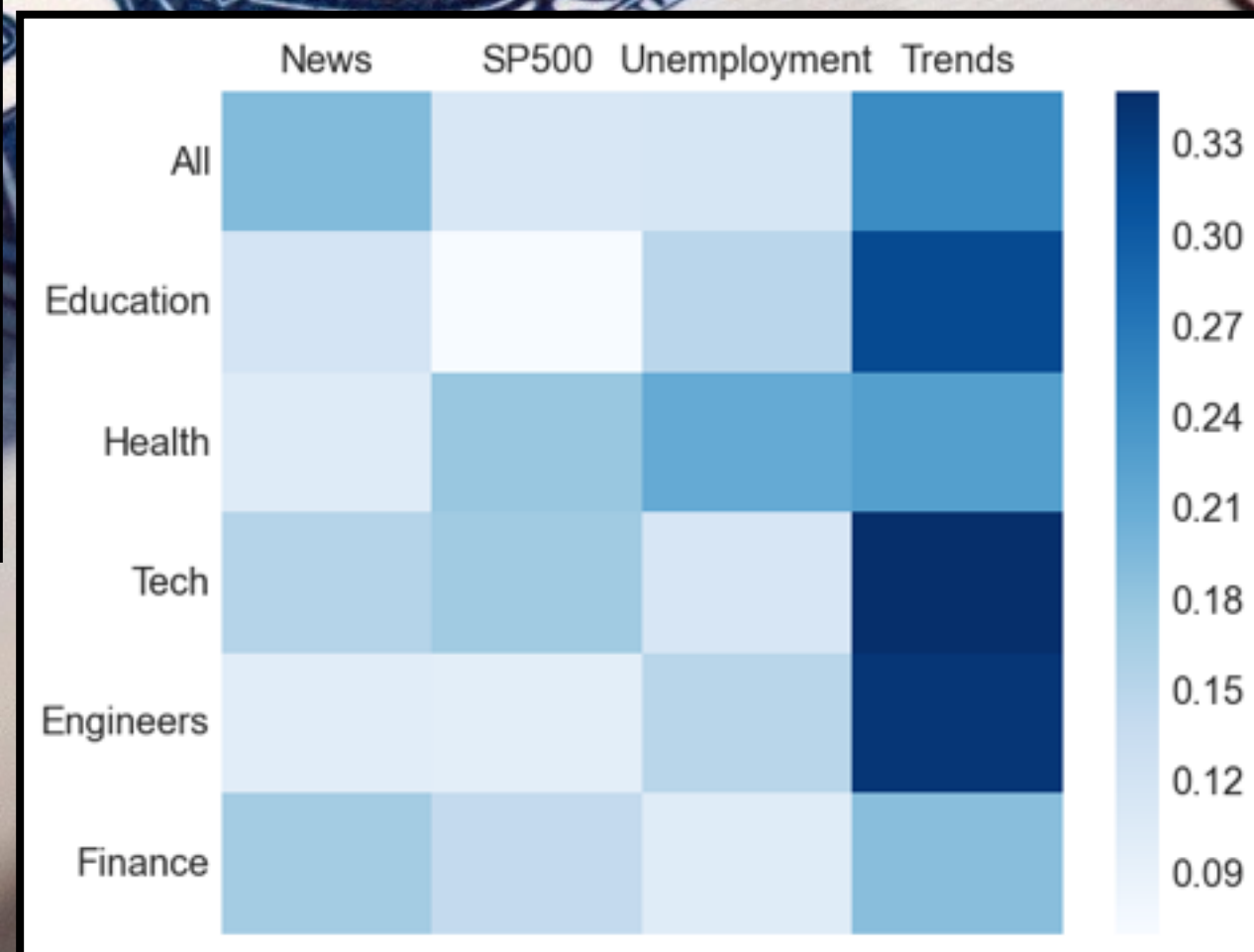
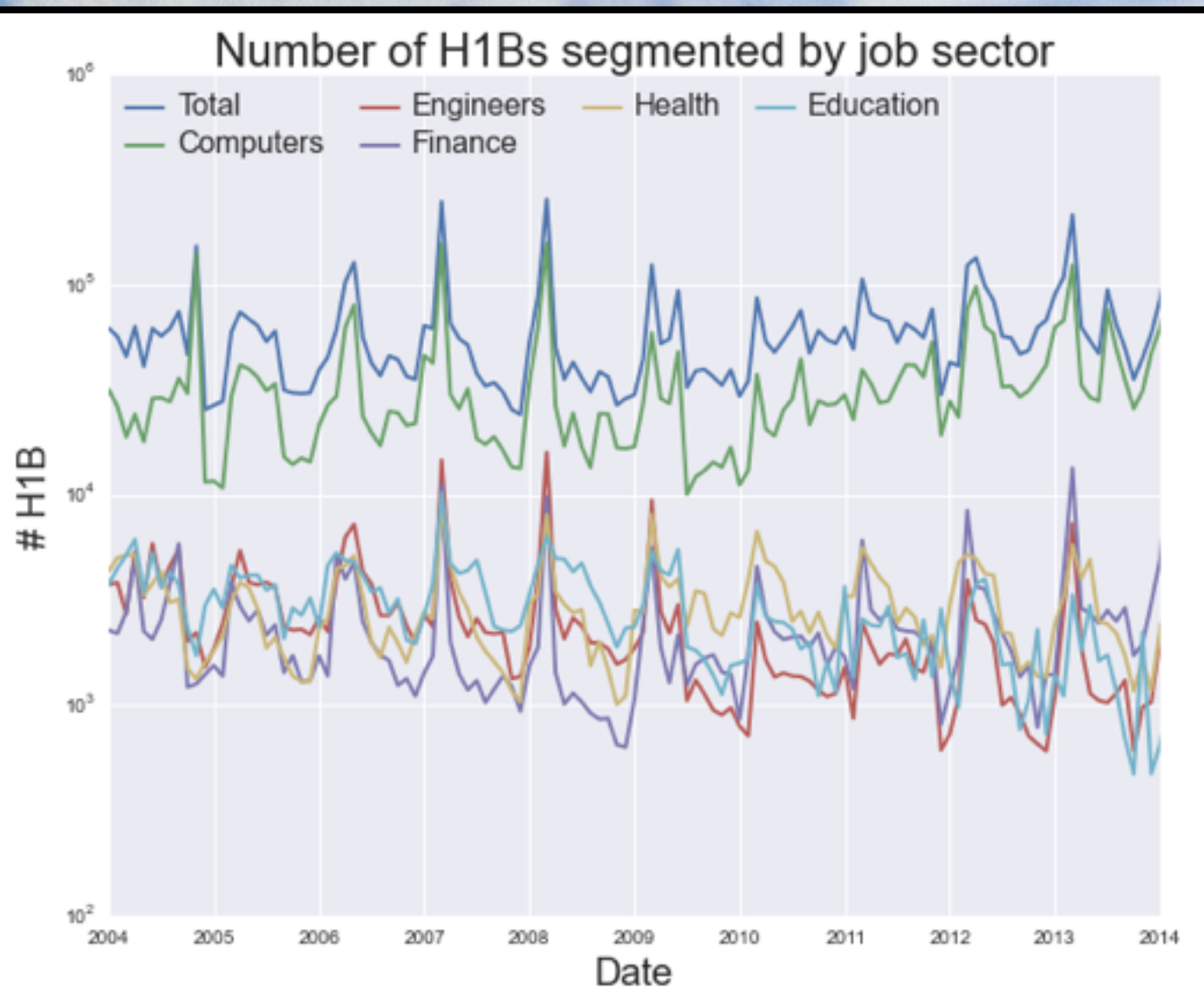
- S&P 500
- Unemployment Rate
- Sentiment of 17,000 NYTimes news articles on the US Economy
- Google Trends of negative economic terms

Algorithm:

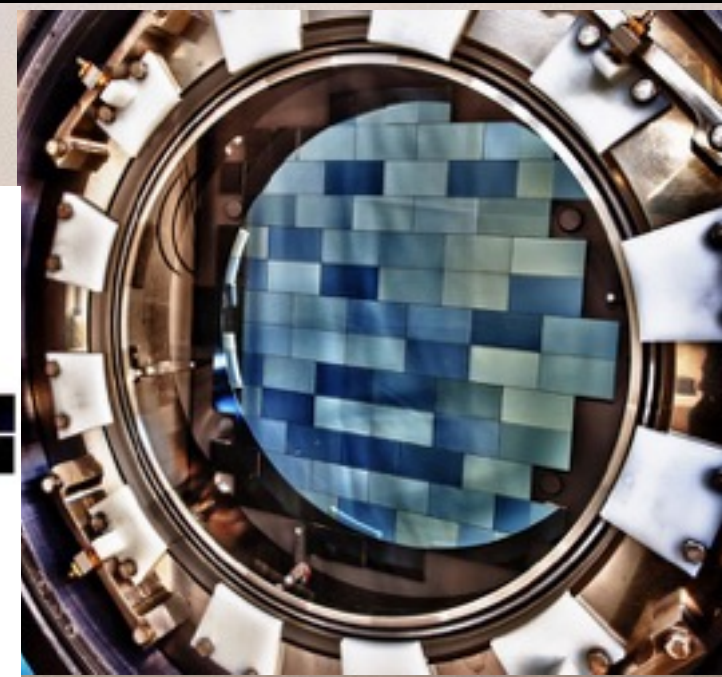
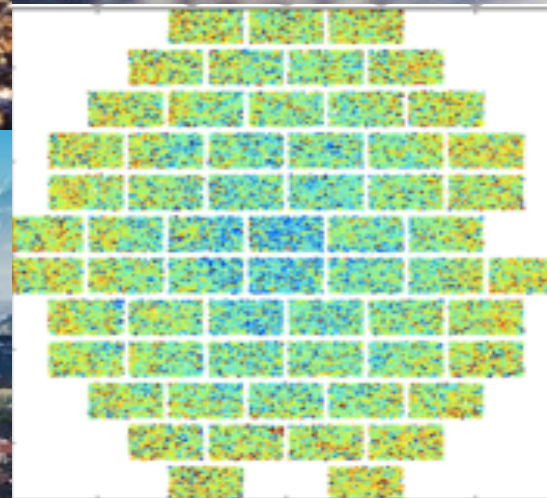
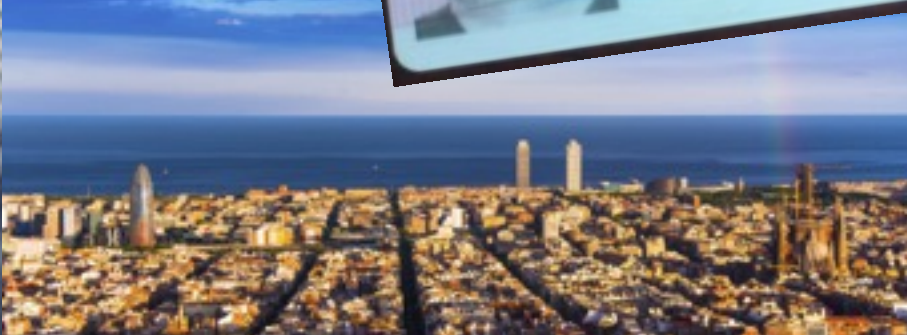
- Fit a time shift to each economic feature
- Input time-shifted features to gradient boosted regression trees



Segmenting by Job Sector



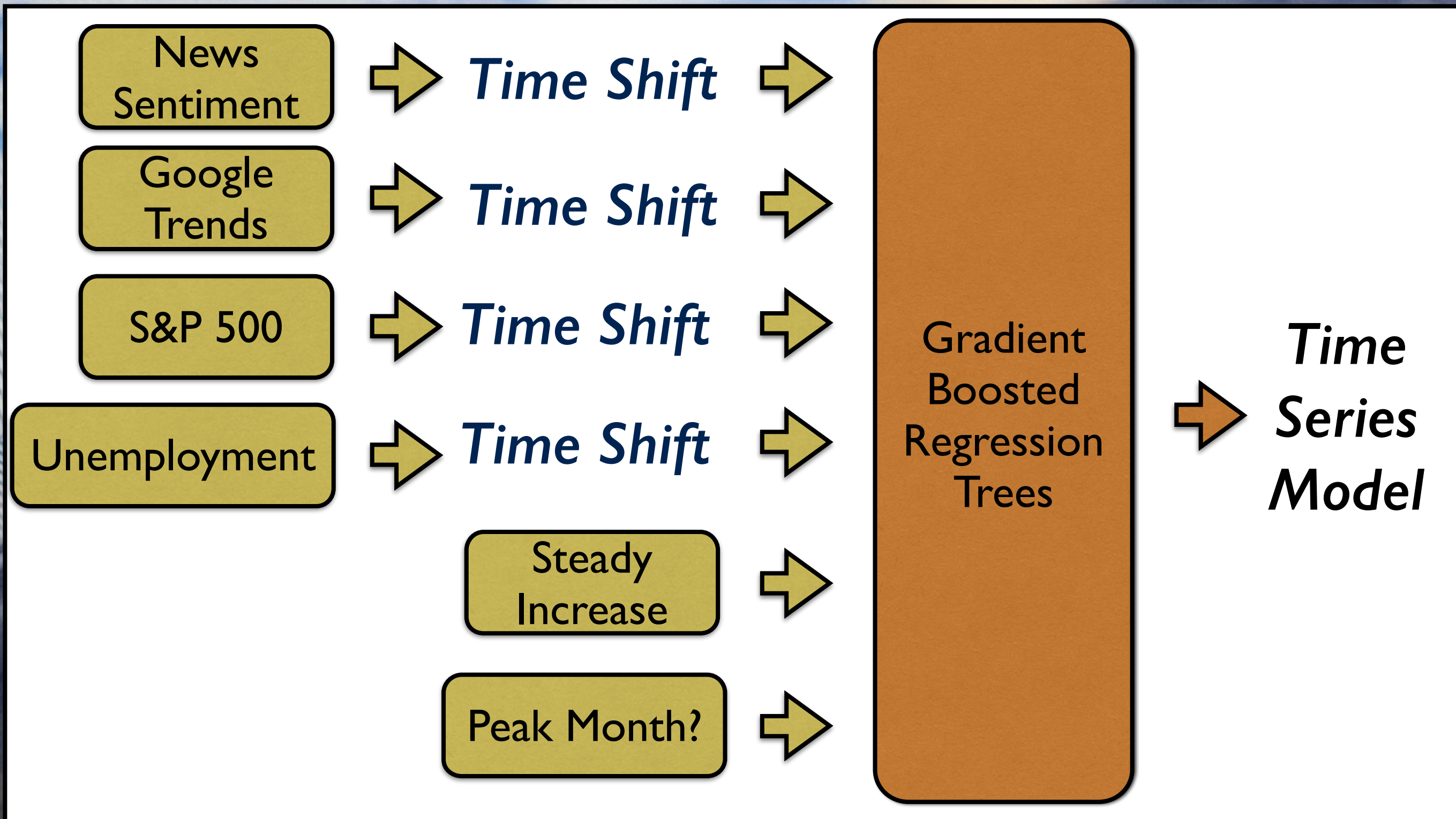
About me



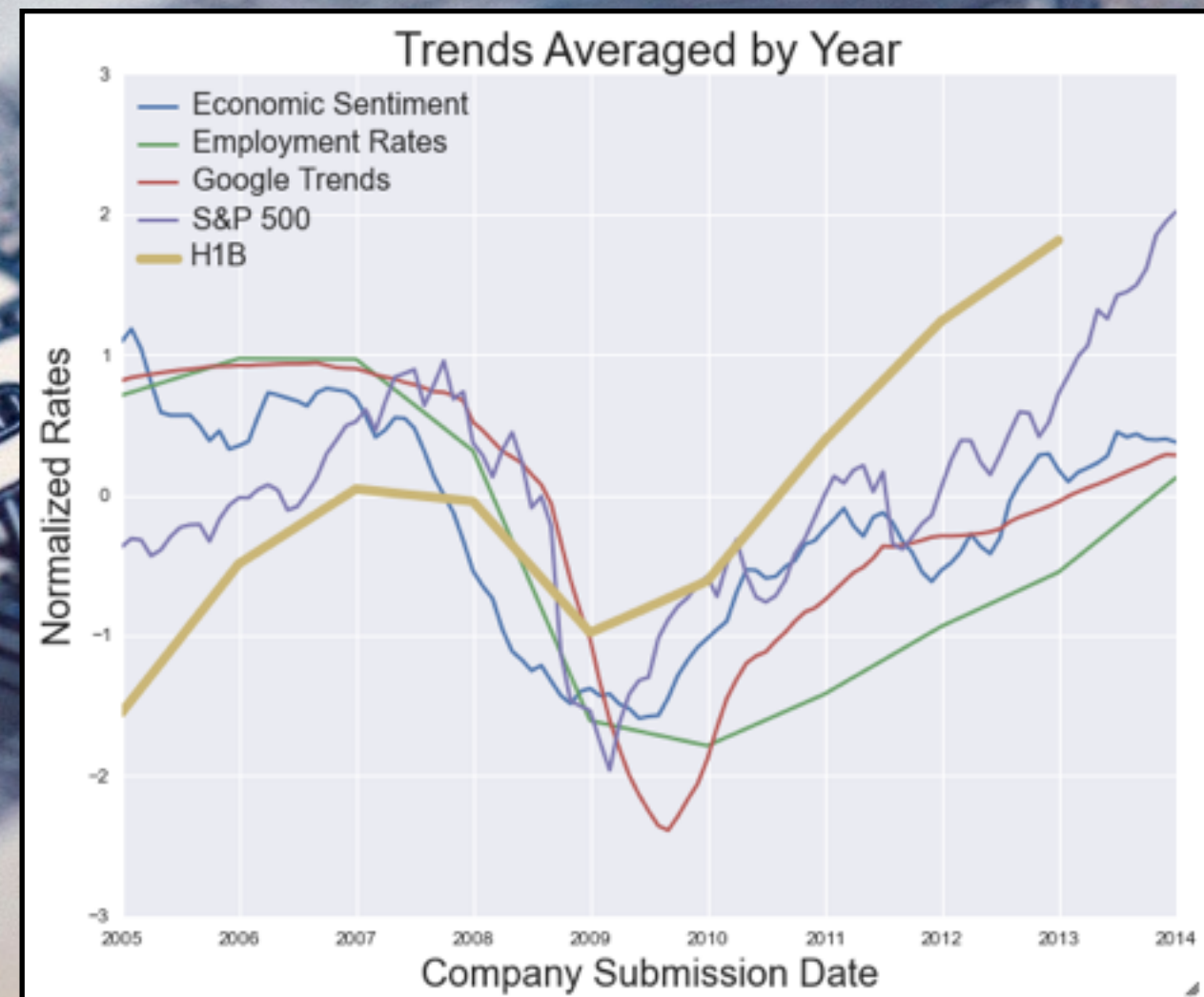
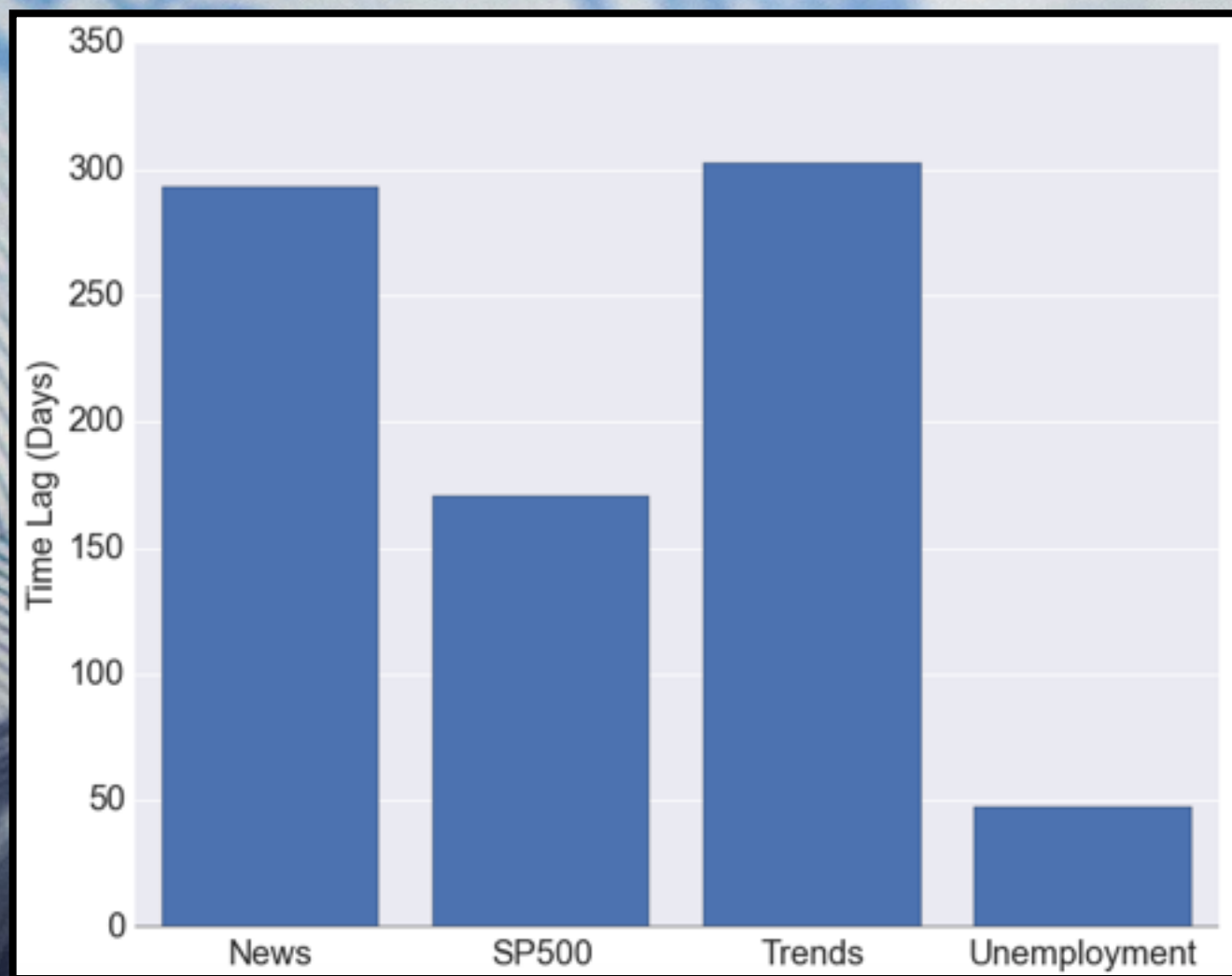
Thank you!



Algorithm



Algorithm



Sentiment Analysis

- 17 000 NYTimes news articles on the US Economy
- Seed word lists manually curated from the most common vocabulary in the articles
- Sentiment score built from the path similarity between the seed words and the article words

Factory Output Fuels Growth in U.S.

By THE ASSOCIATED PRESS
Published: January 18, 2012

WASHINGTON (AP) — Factory production in the United States has surged 15 percent above its lows of two and a half years ago and is helping drive the economy's recovery.

Productivity Grew by 2.2% In 4th Quarter

Published: March 7, 2001

WASHINGTON, March 6— Productivity grew at a revised 2.2 percent during the fourth quarter, closing out the best year for worker efficiency in almost two decades, the government said today.

