



Final presen

GestIT



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Front-end & Data visualization



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What's a Fake News

An inaccurate, sometimes sensationalist report is created to gain attention, mislead, deceive or damage a reputation

 **CMM**
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Homeless Couple Found Living In Walmart Attic With Hot Plate, Meth Lab, And 42" LED TV!! t.co/hY71kN

3:10 PM - 31 Jul 2016

◀ ▶ ❤

 **Scott F. Falkner**
@ScottFalkner

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McDonald's Self-Serve Kiosks A Response to Higher Minimum Wage? <http://www.inquisitr.com/2135669/mcdonalds...>
#McDonalds #Conservative #Science

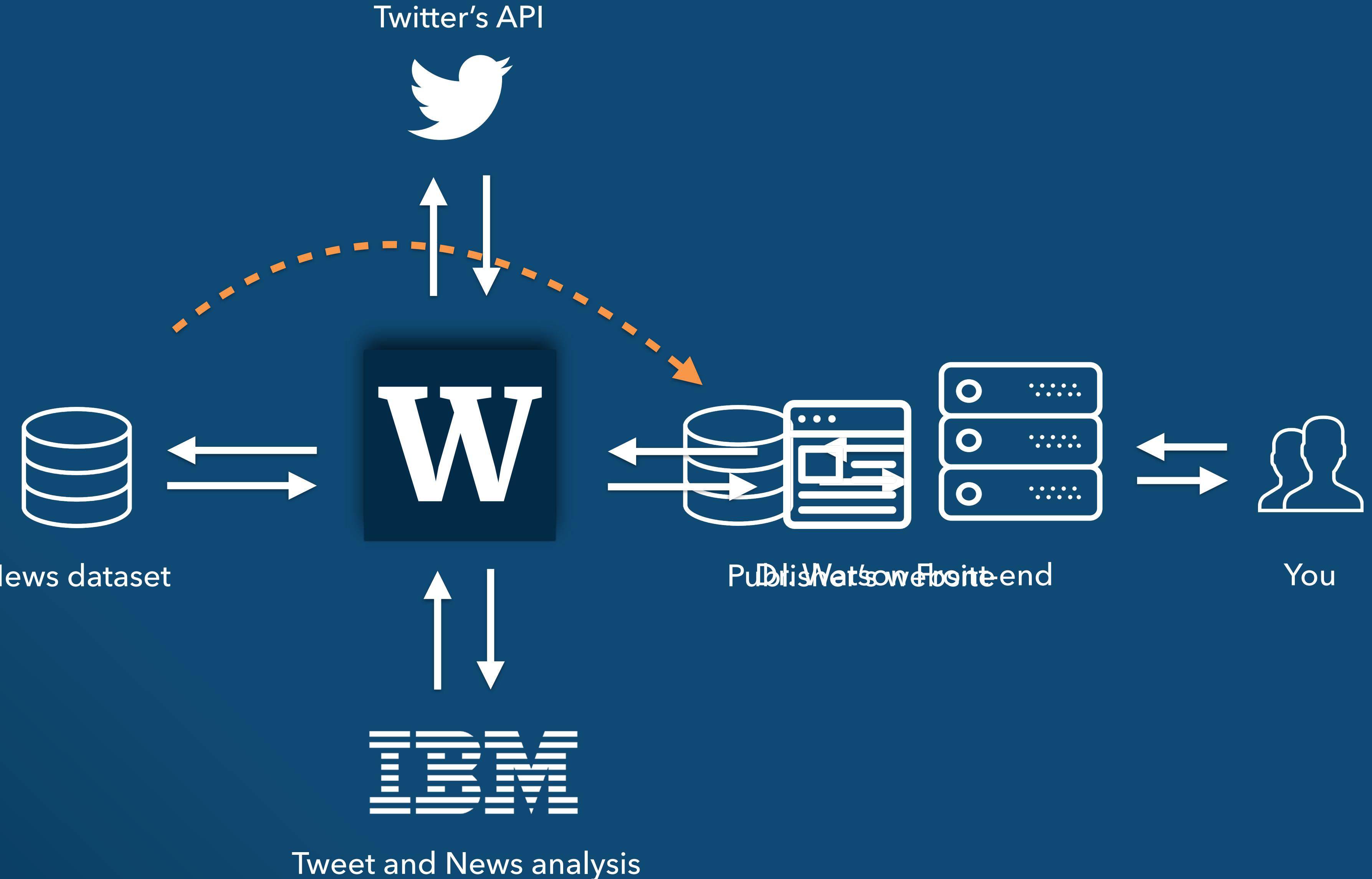
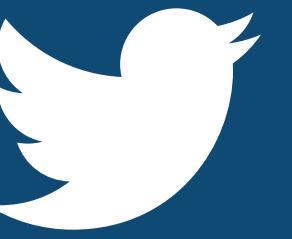
8:26 AM - 1 Jun 2015

◀ ▶ ❤

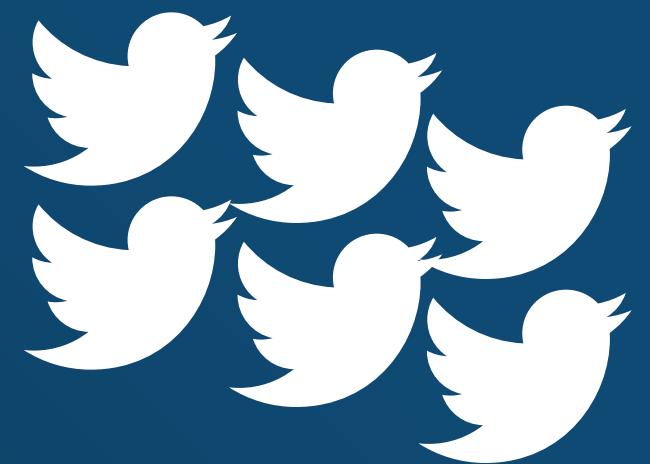
Challenges

- 1 Data availability
- 2 Satire or Fake News?
- 3 True article resemblance
- 4 API Limitation
- 5 Privacy Regulation

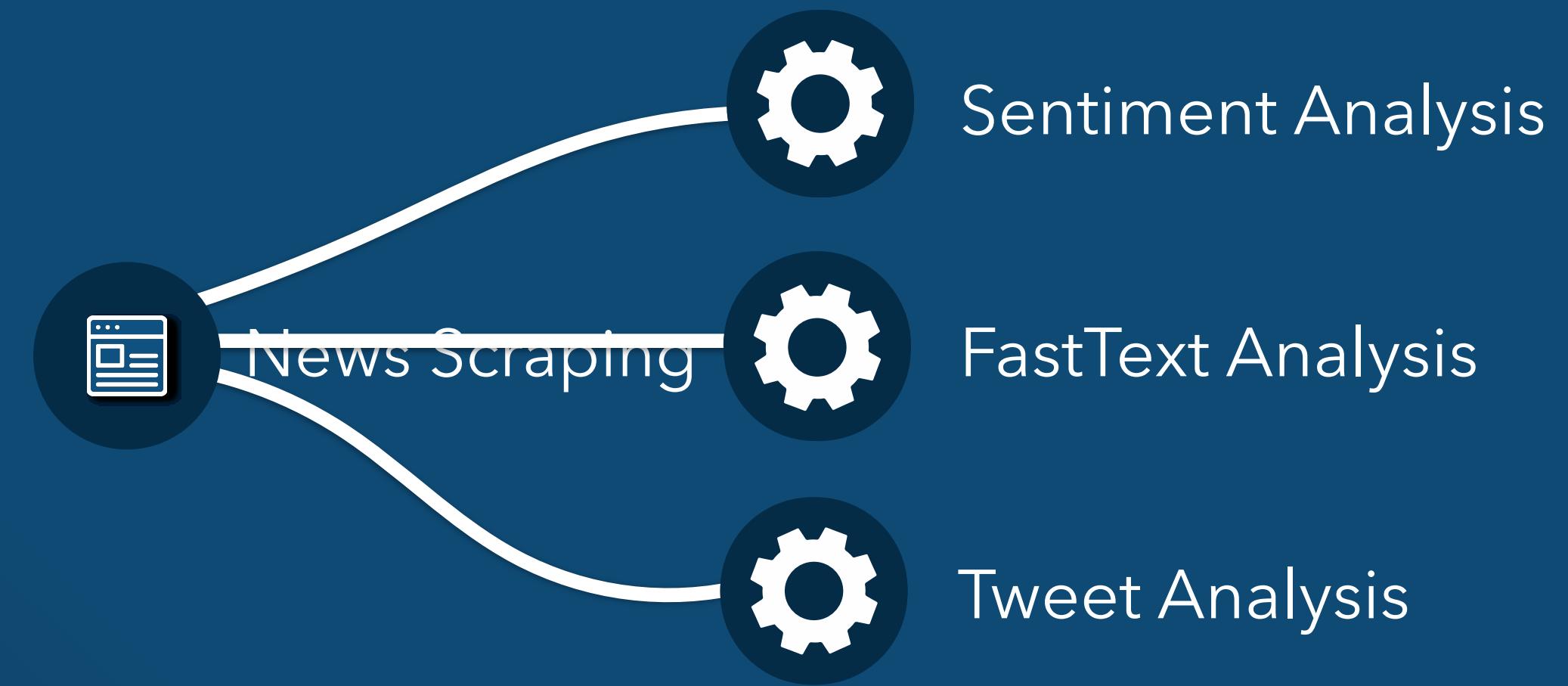
Twitter's API



Back-end Model



Train tweets



Train completed.

Sentiment Analysis



FastText analysis



Tweet analysis

1. Interaction analysis

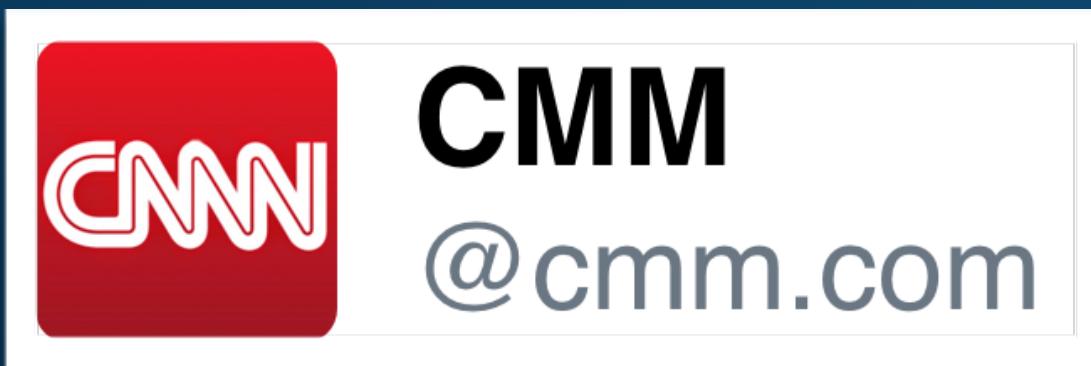


2. Tweet's text extraction



Homeless couple found living In Walmart **attic with hot plate, **meth** lab, and 42" **LED TV**!! **Disgraceful**!!**

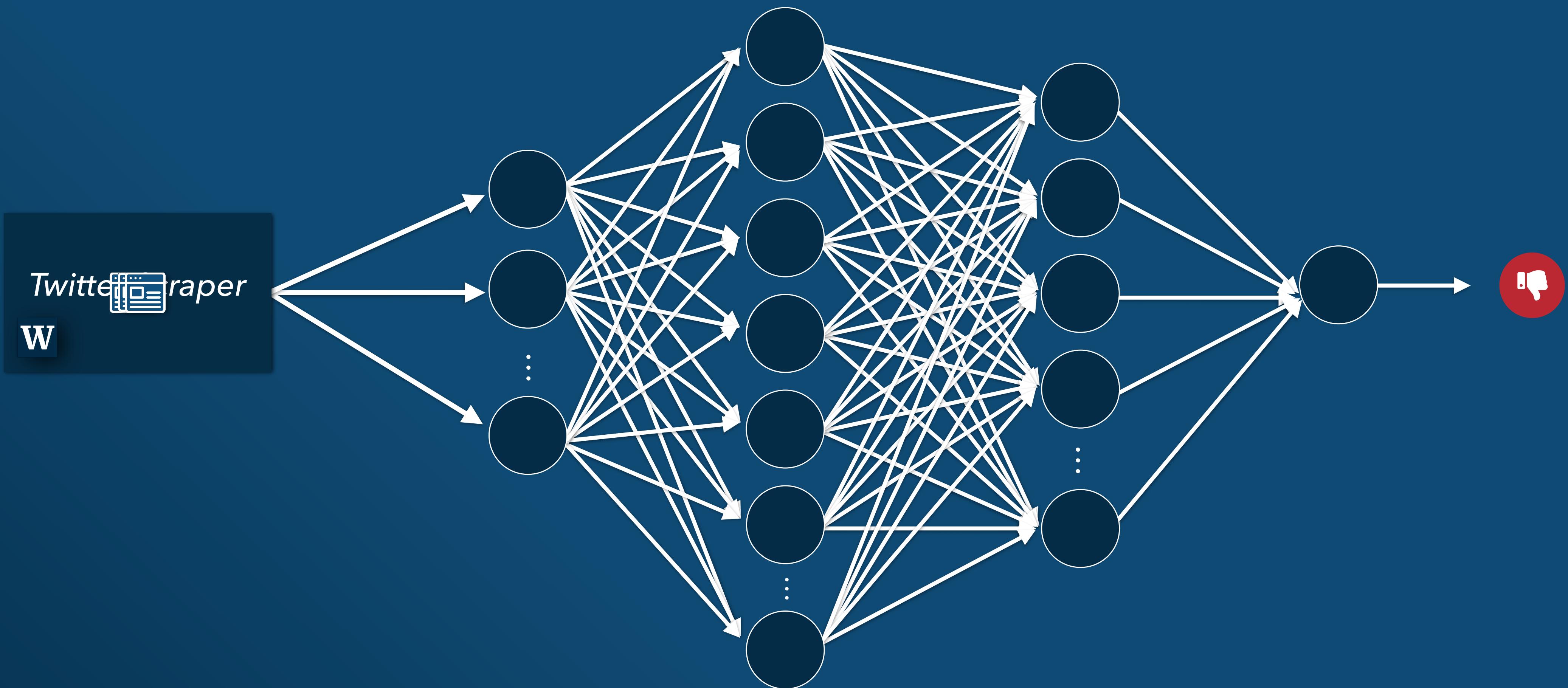
3. Tweet's author analysis



User: @cmm.com
Followers: 223
Verified: NO

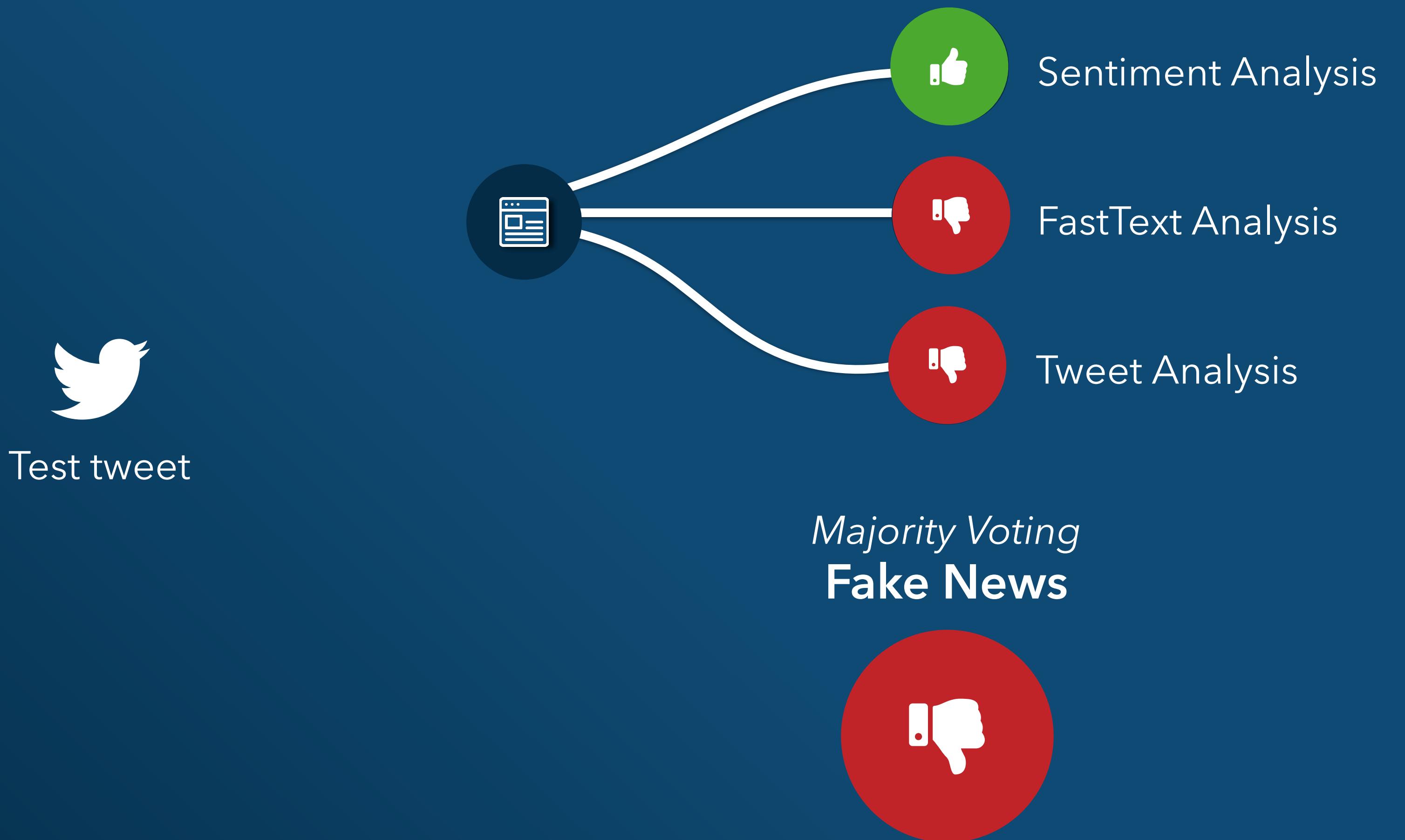
Time Pattern analysis

Through a Deep Neural Network



27 Layers

Back-end Model



Results

W

Accuracy performance:
Sentiment Analysis True
FastText
Tweet Analysis False

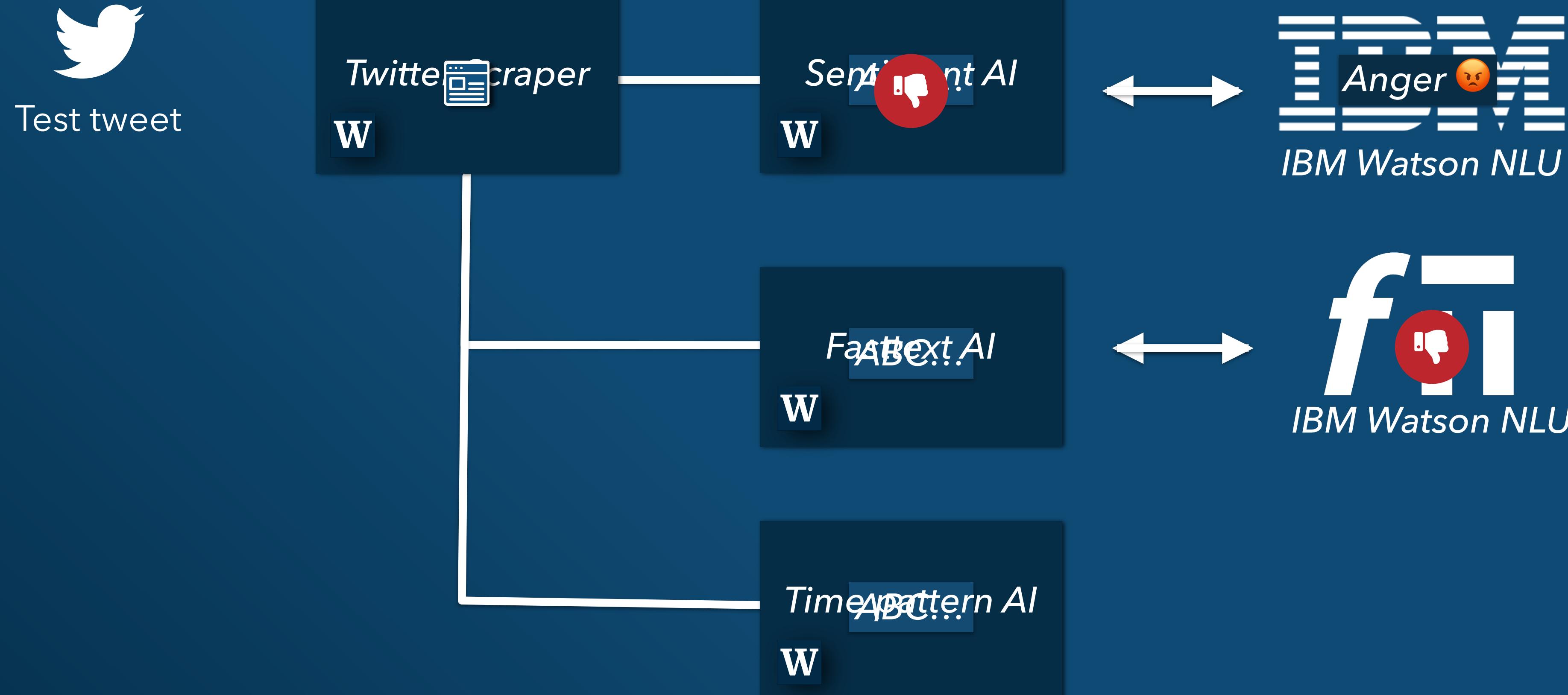
Total Accuracy: 78%

		Predicted	
		True	False
True	True	82%	18%
	False	69%	35%
False	True	68%	65%
	False	73%	18%



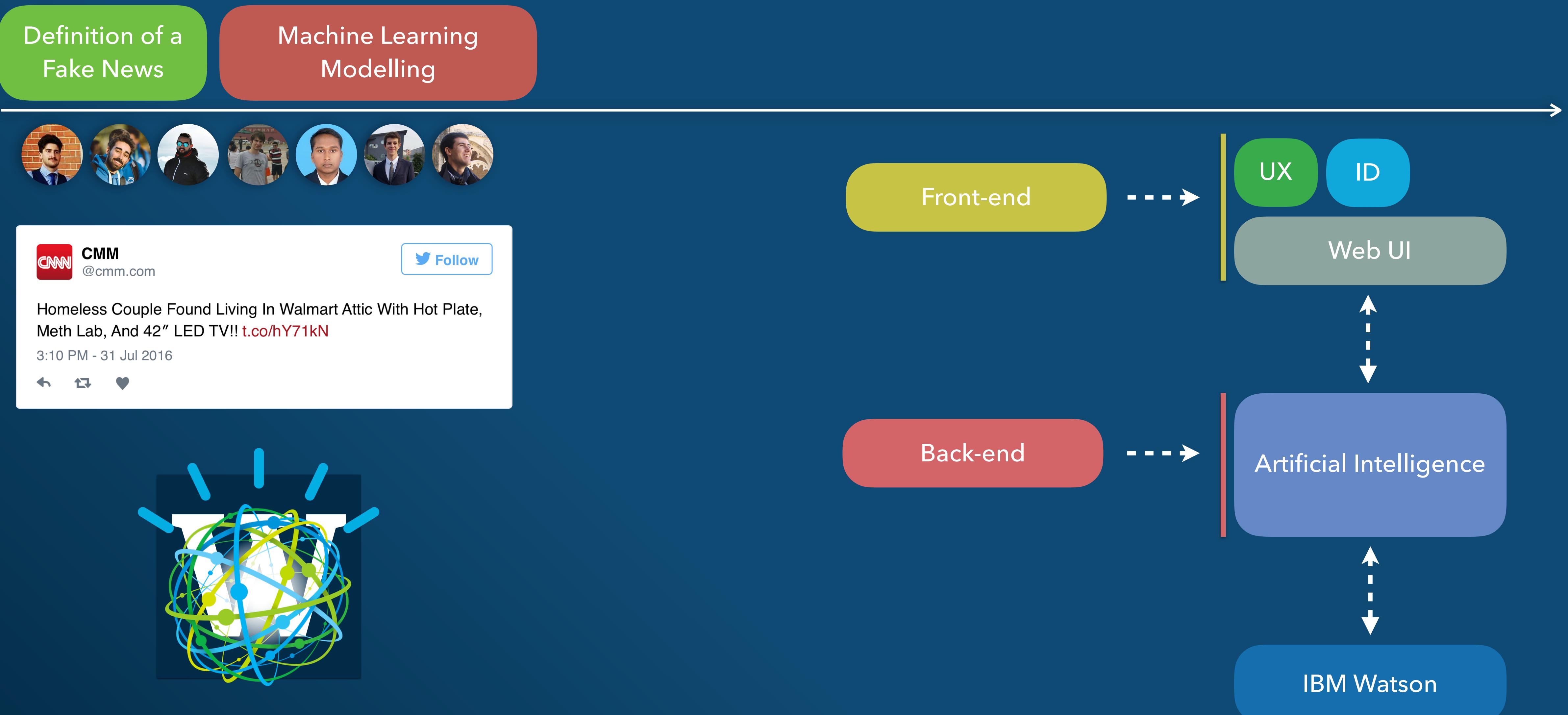
Thank you!

Sentiment analysis



Roadmap

Roadmap



FastText analysis

