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twitminer

Machine Learning Programming Contest
March 1 - 15 , 2013

**Do you have it in you to build a system
that can categorize tweets?**



The TwitMiner 2013 Challenge

A Machine Learning Programming Contest

Harikrishna Narasimhan and Saneem Ahmed

TwitMiner Team:

Saneem Ahmed
Anirban Laha
Adway Mitra
Harikrishna Narasimhan
Kevin Patel

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The TwitMiner 2013 Challenge

- Part of Open Days 2013 @ CSA, IISc
- A machine learning programming contest.

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- Spread awareness about ML among undergrads

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Challenge

Build a system that can categorize *Twitter data*.

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In association with **amazon.com**

Winners to receive **internship** offers!

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In association with  **amazon.com**.

Winners to receive **internship** offers!

But first.....

Why Machine Learning?



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machine learning



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[Scholarly articles for machine learning](#)

[... in search, optimization, and machine learning](#) - Goldberg - Cited by 50557

[Q-learning](#) - Watkins - Cited by 6525

[An introduction to MCMC for machine learning](#) - Andrieu - Cited by 691

[Machine learning - Wikipedia, the free encyclopedia](#)

en.wikipedia.org/wiki/Machine_learning

Machine learning, a branch of artificial intelligence, is a scientific discipline concerned with the design and development of algorithms that allow computers to ...

↳ [List of machine learning ...](#) - [Category:Machine learning](#) - [Weka](#) - [Transduction](#)

[Machine Learning | Coursera](#)

www.coursera.org/course/ml

25 May 2012 – **Machine learning** is the science of getting computers to act without being explicitly programmed. In the past decade, **machine learning** has ...

[Machine Learning textbook](#)

www.cs.cmu.edu/~tom/mlbook.html

Machine Learning, Tom Mitchell, McGraw Hill, 1997. cover; **Machine Learning** is the study of computer algorithms that improve automatically through experience ...

[Machine Learning](#)

www.springer.com > ... > [Computer Science](#) > [Artificial Intelligence](#)

Machine Learning is an international forum for research on computational approaches to learning. The journal publishes articles reporting substantive results on ...

[Introduction to Machine Learning](#)

robotics.stanford.edu/~nilsson/mlbook.html

From this page you can download a draft of notes I used for a Stanford course on **Machine Learning**. Although I have tried to eliminate errors, some undoubtedly ...



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These recommendations are based on [items you own](#) and more.

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1.



[Nikon ML-L3 Wireless Remote Control](#)

by Nikon (June 17, 2003)
Average Customer Review: ★★★★★ (1,215)
In Stock

List Price: \$20.50
Price: \$14.95
[30 used & new](#) from \$10.00

☐ I own it ☐ Not interested ☒ ★★★★★ Rate this item

Recommended because you added **Nikon BM-10 LCD Cover for D90** to your Shopping Cart and more ([Fix this](#))

Add to Cart

Add to Wish List

2.



[Peltor 97010 Ultimate-10 Hearing Protector](#)

by Peltor (January 12, 2005)
Average Customer Review: ★★★★★ (165)
In Stock

List Price: \$25.99
Price: \$20.63
[45 used & new](#) from \$18.77

☐ I own it ☐ Not interested ☒ ★★★★★ Rate this item

Recommended because you purchased **Peltor 97079 Combat Arms Earplugs** and more ([Fix this](#))

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3.



[Nikon DK-21 Rubber Eyecup Nikon Digital SLR Cameras](#)

by Nikon (June 17, 2003)
Average Customer Review: ★★★★★ (28)
In Stock

Price: \$8.94
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Brief Outline

Part 1: Overview of Machine Learning

Brief Outline

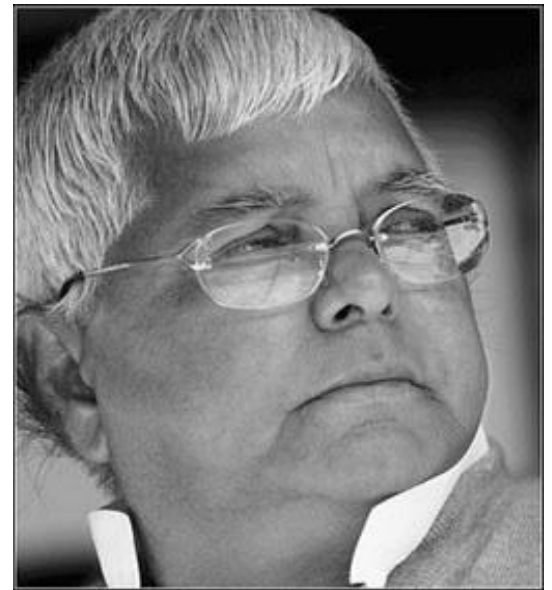
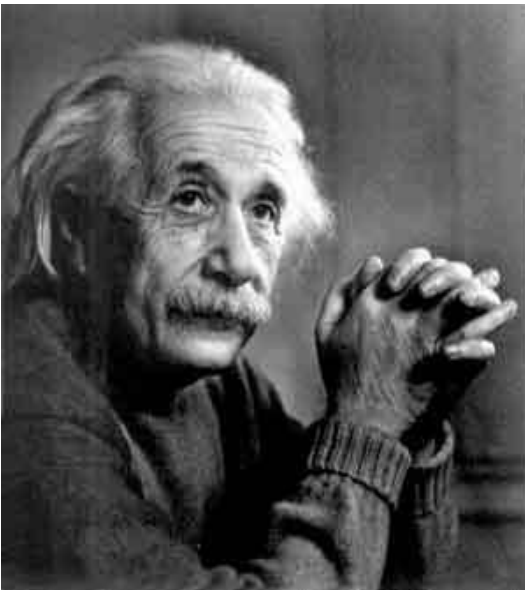
Part 1: Overview of Machine Learning

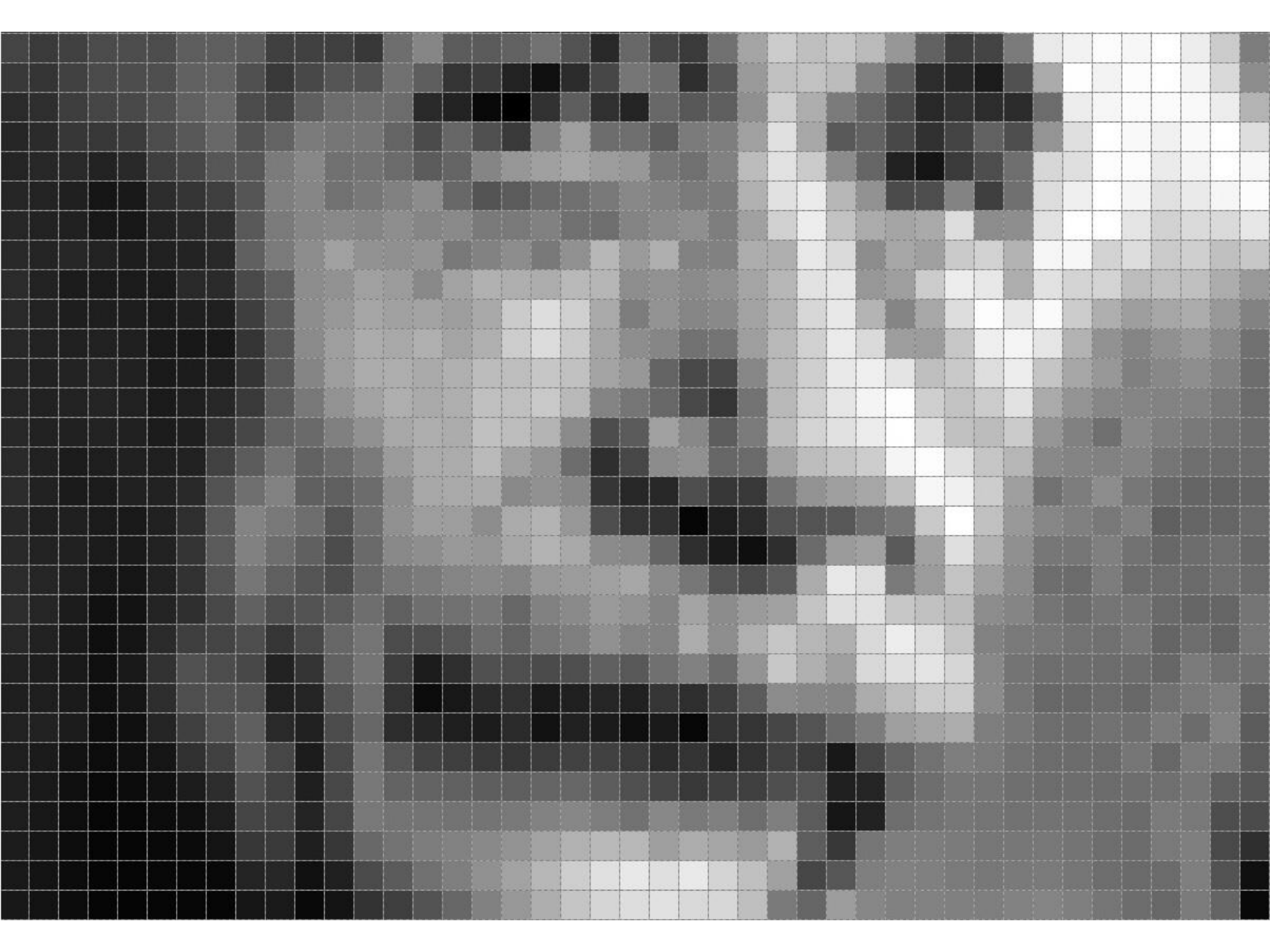
Part 2: The TwitMiner 2013 Challenge

Part 1

What is Machine Learning?

Who among these is Albert Einstein?





63	67	59	77	74	78	92	101	85	71	51	67	74	101	125	99	85	110	112	82	52	97	65	63	120	167	198	198	203	180	151	98	57	66	139	221	254	251	253	250	248	196	124
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Can You Teach Your Computer
To Recognize Einstein?

Machine Learning

“Field of study that gives computers the ability to learn without being explicitly programmed.”

- Arthur Samuel



Raw Mango Vs. Ripen Mango

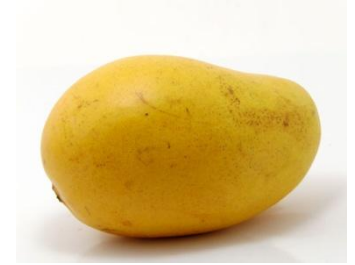
Raw Mango Vs. Ripen Mango



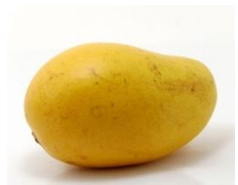
Raw Mango Vs. Ripen Mango



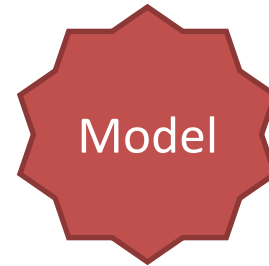
Raw Mango Vs. Ripen Mango



Machine Learning System

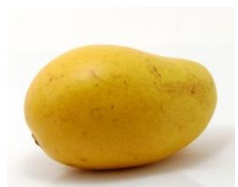


Extract
Features



**Raw
or
Ripen?**

Machine Learning System



Extract
Features



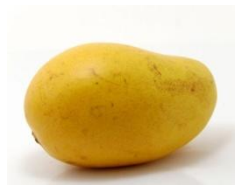
Model



**Raw
or
Ripen?**

**How do you input a
mango to a computer?**

Machine Learning System



Extract
Features



Model

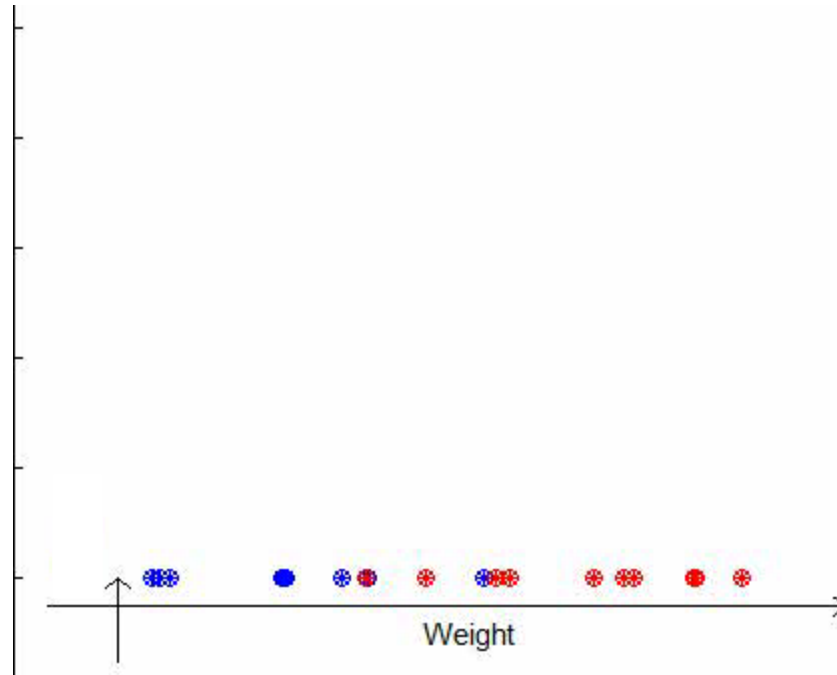


Raw
or
Ripen?

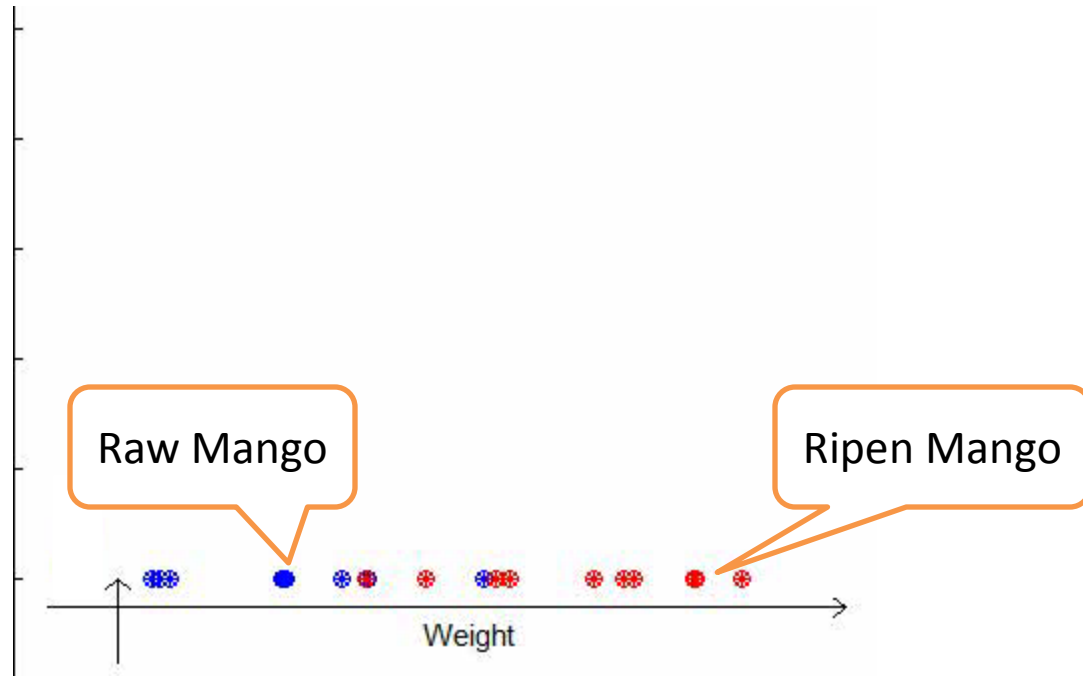
How do you input a
mango to a computer?

How do you make a
prediction?

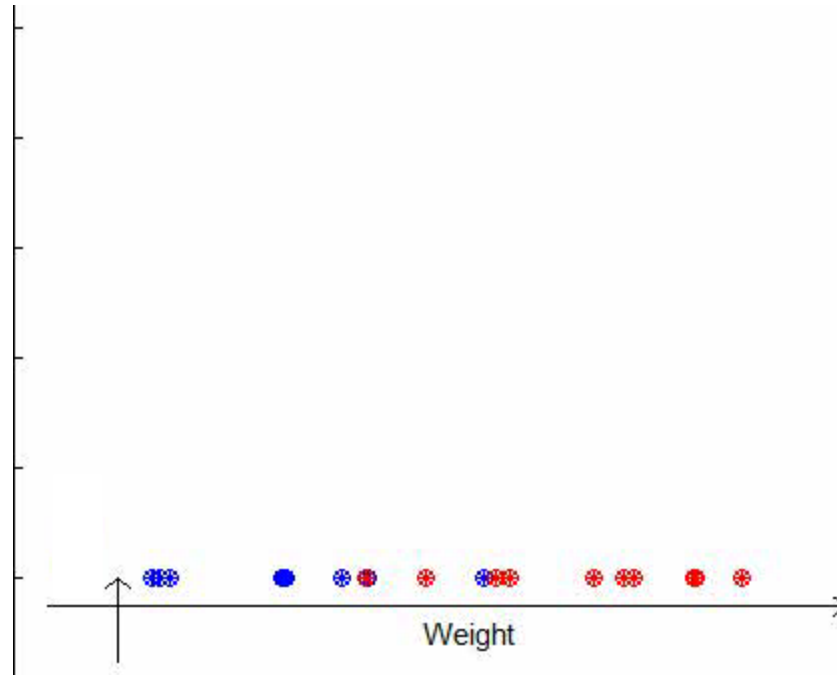
How do you represent a mango?



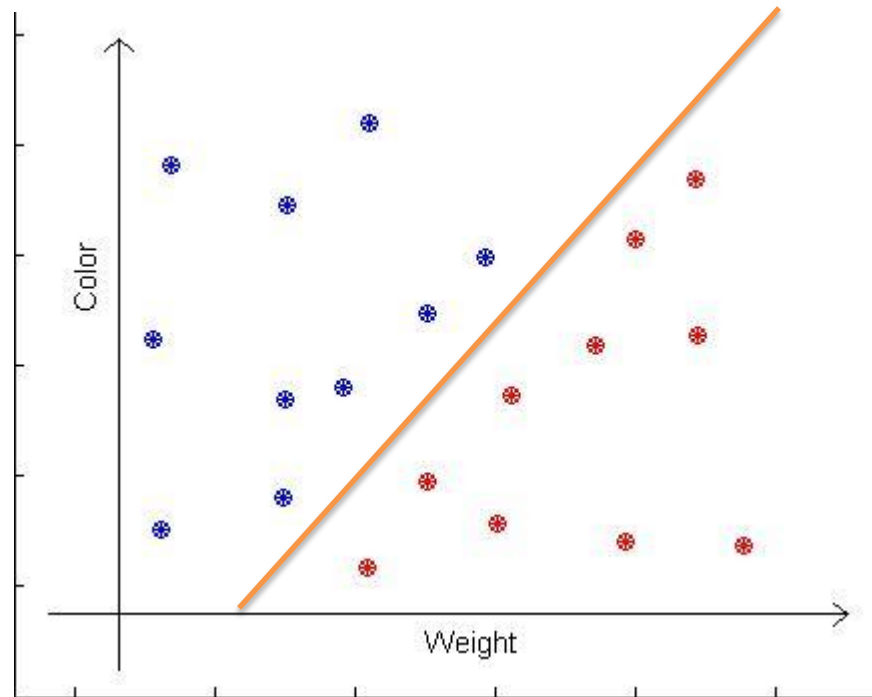
How do you represent a mango?



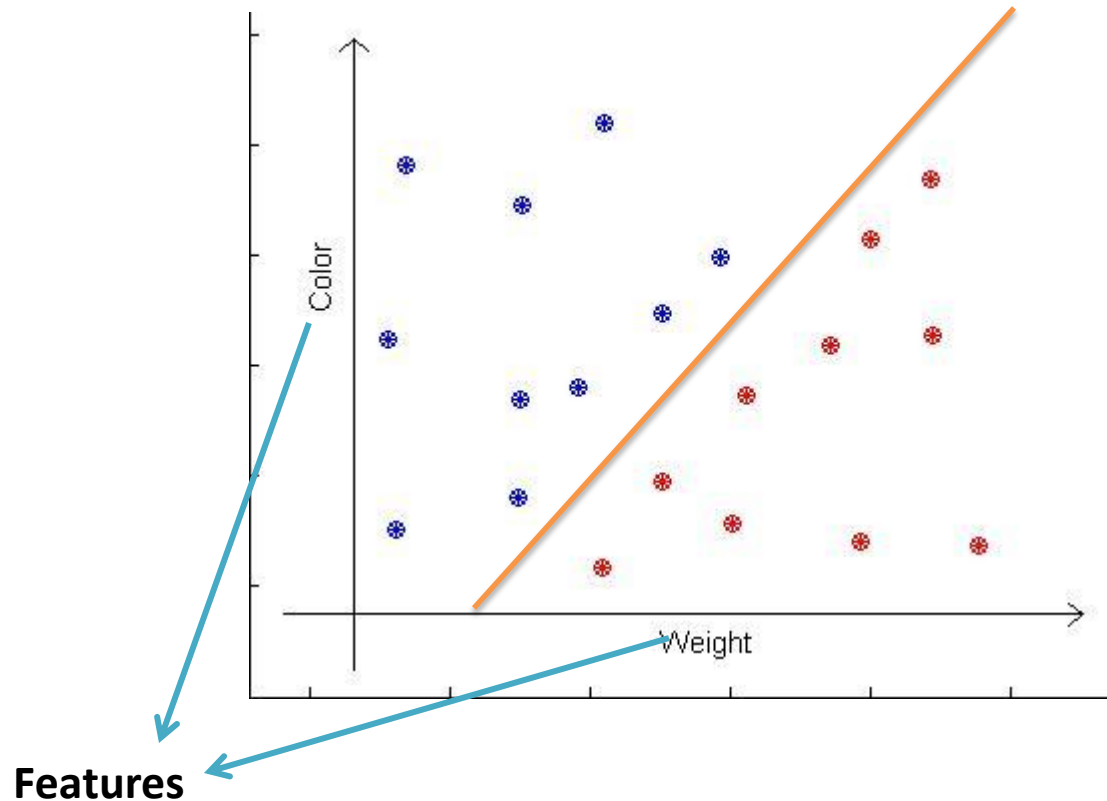
How do you represent a mango?



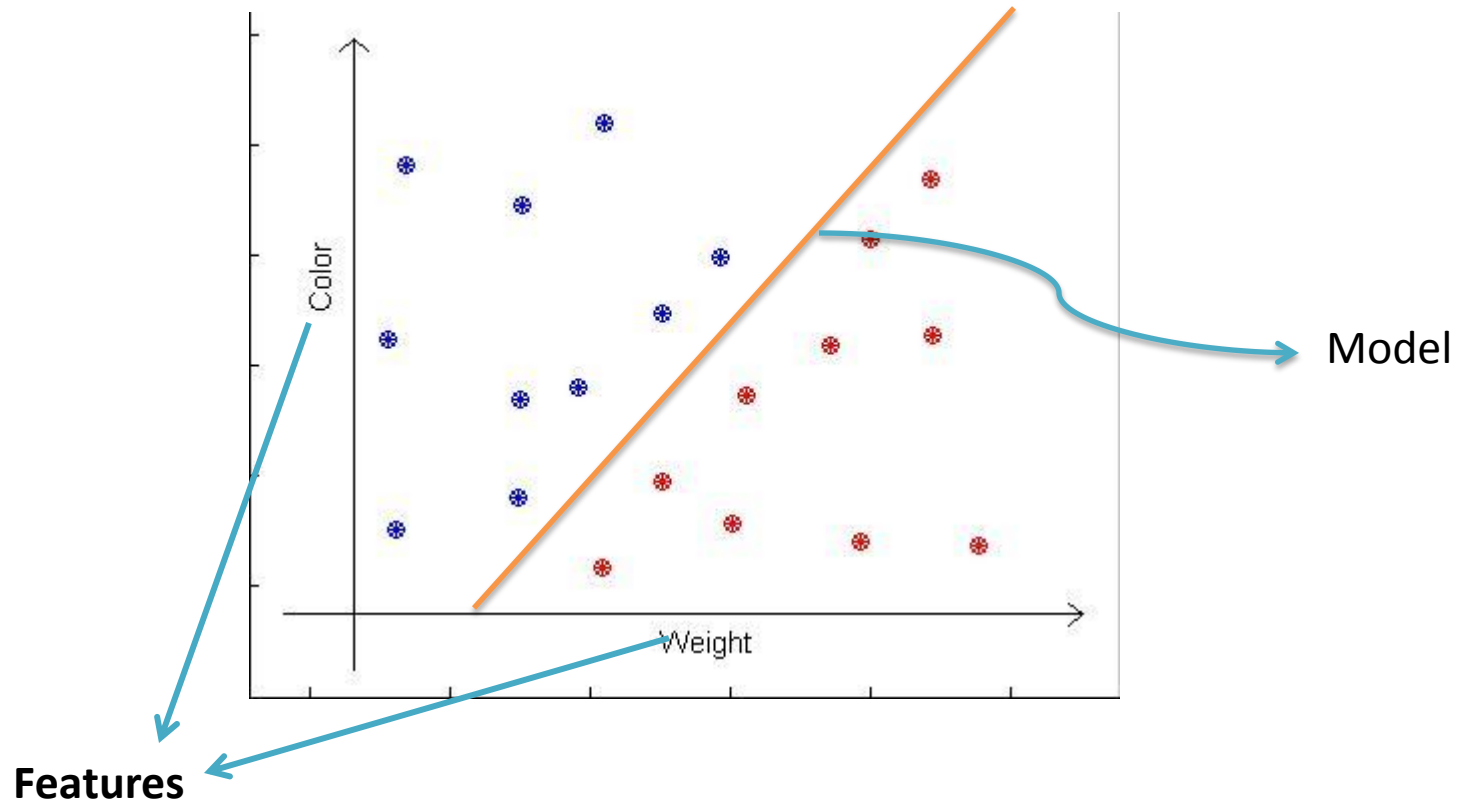
How do you represent a mango?



How do you represent a mango?



How do you represent a mango?



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Spam Filter

From Allen and Violet Large



Spam x



saavedra saavedra@filo.uba.ar
to undisclosed recipients

May 9 ☆



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Dear Sir/Madam,

This is my fifth times of writting you this email since last year till date but no response from you. Hope you get this one, as this is a personal email directed to you.

My wife and I won a Jackpot Lottery of \$11.3 million in July and have voluntarily decided to donate the sum of \$500,000.00 USD to you as part of our own charity project to improve the lot of 10 lucky individuals all over the world. If you have received this email then you are one of the lucky recipients and all you have to do is get back with us so that we can send your details to the payout bank. Please note that you have to contact my private email for more informations (allenvioletlarge2@ozledim.net)

You can verify this by visiting the web pages below.

<http://www.dailymail.co.uk/news/article-1326473/Canadian-couple-Allen-Violet-Large-away-entire-11-2m-lottery-win.html>

<http://www.cbc.ca/news/canada/nova-scotia/story/2010/11/04/ns-allen-violet-large-lottery-winning.html>

Goodluck,
Allen and Violet Large
Email: allenvioletlarge2@ozledim.net

Spam Filter

From Allen and Violet Large

Spam x



saavedra saavedra@filo.uba.ar
to undisclosed recipients

May 9



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Email: allenvioletlarge2@ozledim.net

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From Allen and Violet Large

Spam x



saavedra saavedra@filo.uba.ar
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May 9



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<http://www.cbc.ca/news/canada/nova-scotia/story/2010/11/04/ns-allen-violet-large-lottery-winning.html>

Goodluck,
Allen and Violet Large
Email: allenvioletlarge2@ozledim.net

Look for key words

Spam Filter

Spam Filter

Dictionary Words

aardwolf	X
abacus	X
abandon	X
abbreviate	X
abdicate	X
.	
.	
dollar	✓
.	
.	
jackpot	✓
.	
.	
lottery	✓
.	
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zygotic	X
zymurgy	X

Spam Filter

Dictionary Words

aardwolf	X
abacus	X
abandon	X
abbreviate	X
abdicate	X
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dollar	✓
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jackpot	✓
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lottery	✓
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zygotic	X
zymurgy	X



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Binary Features

Spam Filter

Dictionary Words

aardwolf	X
abacus	X
abandon	X
abbreviate	X
abdicate	X
.	
.	
dollar	✓
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jackpot	✓
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lottery	✓
.	
.	
zygotic	X
zymurgy	X



0 0 0 0 . . . 1 . . 1 . . 1 . . 0 . . 0



Learning
Algorithm

Binary Features

Building a Learning System

Building a Learning System

Training Data



Ripen



Raw

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Raw



Ripen

Building a Learning System

Training Data



Ripen



Raw

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Raw



Ripen



Learning
Algorithm

Building a Learning System

Training Data



Ripen



Raw

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Raw



Ripen



Learning
Algorithm



Model

Building a Learning System

Training Data



Ripen



Raw

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Raw



Ripen



Learning
Algorithm



Model



Raw or Ripen?

Building a Learning System

Training Data



Ripen



Raw

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Raw



Ripen

Good features?



Learning
Algorithm



Model



Raw or Ripen?

Building a Learning System

Training Data



Ripen



Raw

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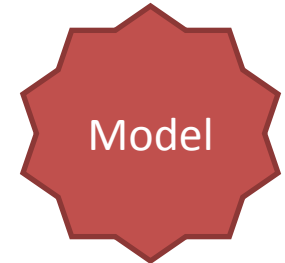
Raw



Ripen

Good features?

Efficient learning algorithm?



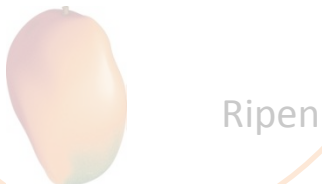
Raw or Ripen?

Building a Learning System

Training Data



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Good features?
Efficient learning algorithm?
Good model?



Learning
Algorithm



Model



Raw or Ripen?

Applications of Machine Learning

Applications of Machine Learning

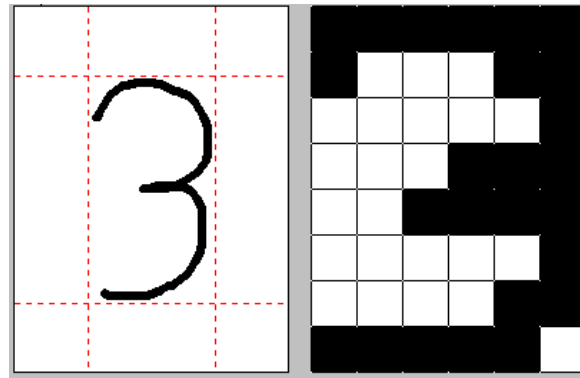
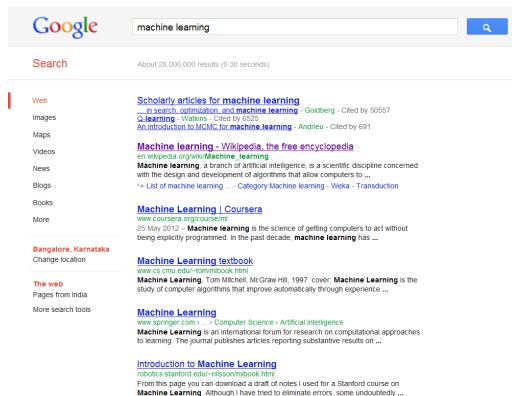
- Information Retrieval

A screenshot of a Google search for "machine learning". The search bar at the top shows the query "machine learning" with a search button. Below the search bar, it indicates "About 28,000,000 results (0.30 seconds)". The results are categorized on the left: Web, Images, Maps, Videos, News, Blogs, Books, and More. The "Web" category is selected, showing several results:

- Scholarly articles for machine learning**
 - ... in search, optimization, and machine learning - Goldberg - Cited by 5557
 - G-learning - Vidale - Cited by 4025
 - An introduction to MCMC for machine learning - Andrieu - Cited by 691
- Machine learning - Wikipedia, the free encyclopedia**
 - en.wikipedia.org/wiki/Machine_learning
 - Machine learning**, a branch of artificial intelligence, is a scientific discipline concerned with the design and development of algorithms that allow computers to ...
 - 1+ List of machine learning ... - Category Machine learning - Wikia - Transclusion
- Machine Learning | Coursera**
 - www.coursera.org/courses
 - 25 May 2012 - **Machine learning** is the science of getting computers to act without being explicitly programmed. In the past decade, **machine learning** has ...
- Machine Learning textbook**
 - www.cs.cmu.edu/~tom/book.html
 - Machine Learning**. Tom Mitchell. McGraw Hill, 1997. cover: **Machine Learning** is the study of computer algorithms that improve automatically through experience ...
- Machine Learning**
 - www.springer.com + 1 Computer Science + Artificial Intelligence
 - Machine Learning** is an international forum for research on computational approaches to learning. The journal publishes articles reporting substantive results on ...
- Introduction to Machine Learning**
 - robotics.stanford.edu/~russell/book.html
 - From this page you can download a draft of notes I used for a Stanford course on **Machine Learning**. Although I have tried to eliminate errors, some undoubtedly ...

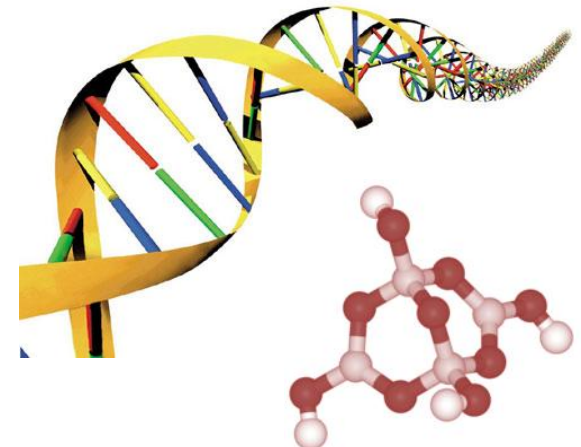
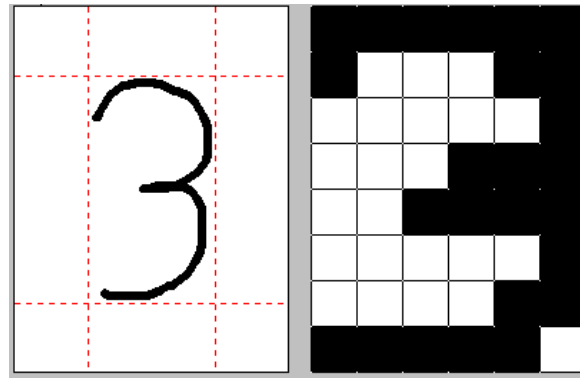
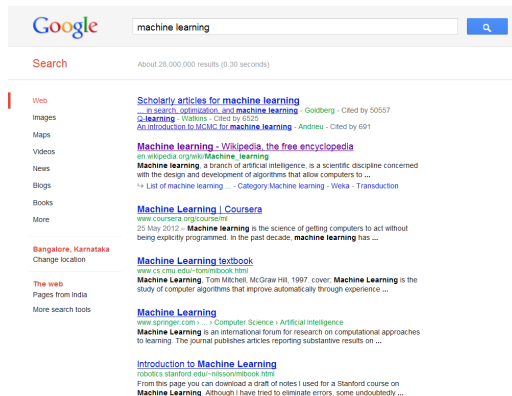
Applications of Machine Learning

- Information Retrieval
- Computer Vision



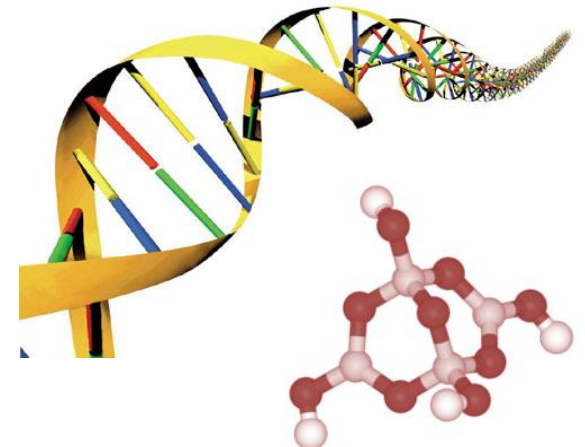
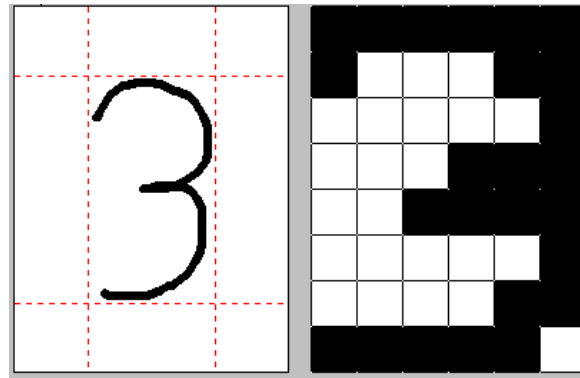
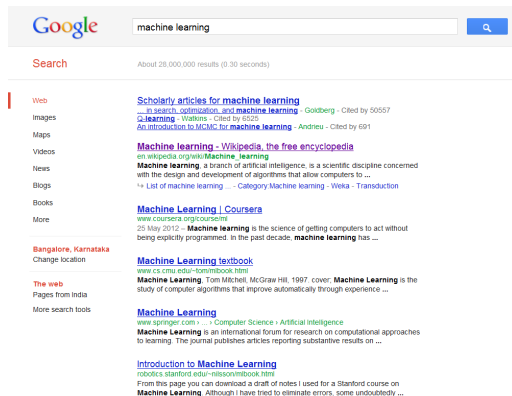
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Applications of Machine Learning

- Information Retrieval
- Computer Vision
- Bioinformatics
- Natural Language Processing

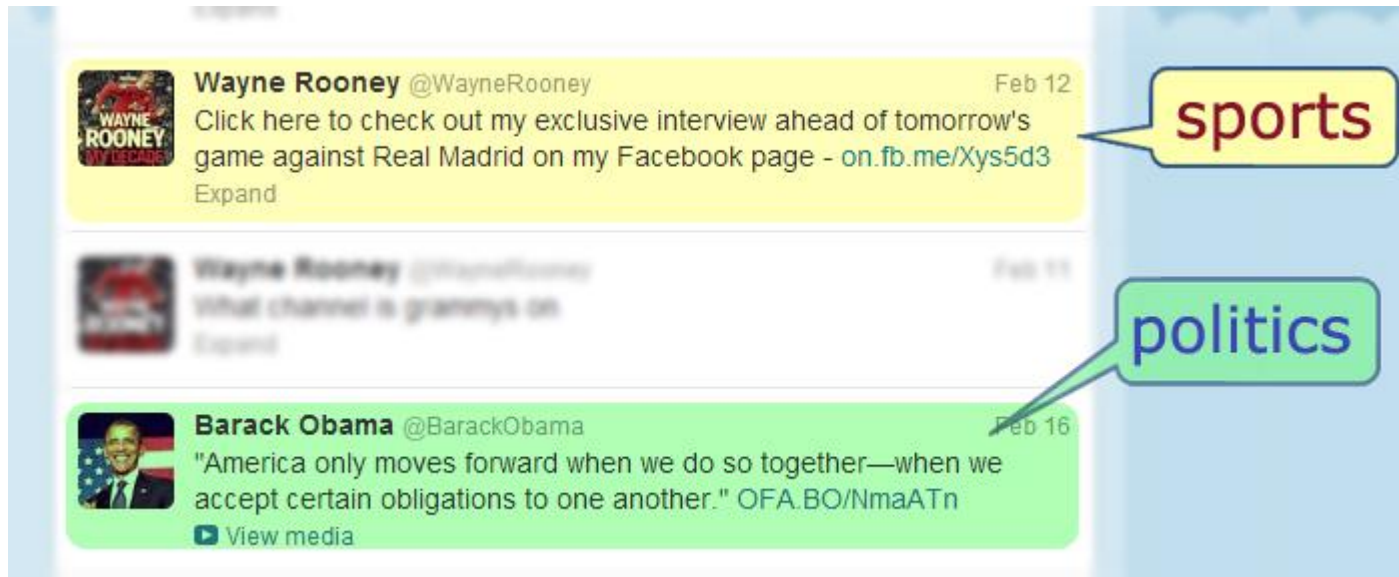


Part 2

The TwitMiner Challenge 2013

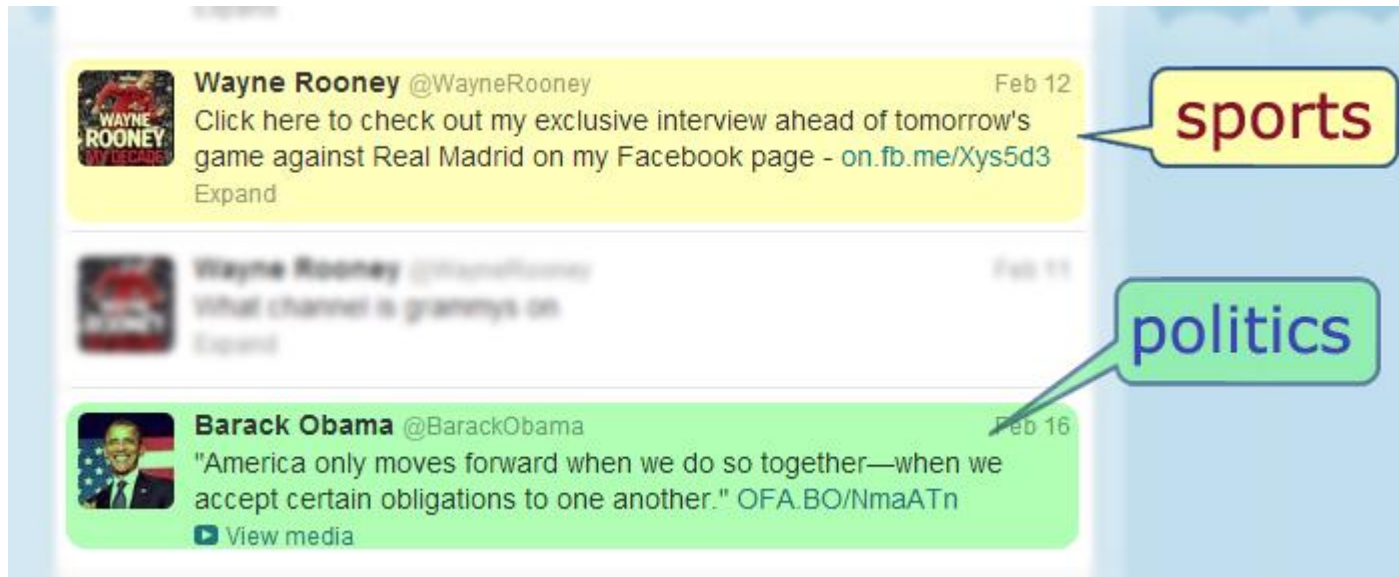
The Challenge

- Build a system that can categorize tweets into **sports** and **politics**.



The Challenge

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- Data in a single tweet is limited by number of characters.

Data

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- Training data set: <tweet-id, user-id, label>

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Used to build a prediction model

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Tweet text not provided!

A separate **script** provided to download tweet texts.

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Tweet text not provided!

A separate **script** provided to download tweet texts.

Data to be uploaded soon.. (before March 3)

Getting Started



1. Extract **features** from tweet text

Getting Started



1. Extract **features** from tweet text
2. Build a **model** using a learning algorithm

Getting Started



1. Extract **features** from tweet text
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3. Tune the model using **validation** data

Getting Started



1. Extract **features** from tweet text
2. Build a **model** using a learning algorithm
3. Tune the model using **validation** data
4. Submit predicted labels on **test** data


Submissions

- Submission portal to be online soon..
- Predicted labels for **validation** data
 - Helps you **tune** your model
- Predicted labels for **test** data
 - Used to **evaluate** your model

Any number of times!

Only once!

Prizes

- **First Prize:** Internship/PPI offers at  **amazon.com**.
- **Second Prize:** Prizes worth INR 10000
- **Third Prize:** Prizes worth INR 6000

Rules

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- Each team can have a max. of 2 members.

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- Both test accuracy and submitted write up/code will be used to decide the winner.

Important Dates

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- 1-Mar 2013: Event declared open

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- 3-Mar 2013: Registration begins

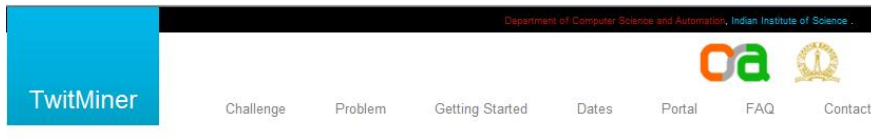
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- 31-Mar 2013: Declaration of winners

Visit us at: <http://events.csa.iisc.ernet.in/opendays2013/twitminer/>



What is TwitMiner?

TwitMiner is a contest designed to extract/mine 'useful' information from a collection of tweets hosted by Twitter.com. This is a challenging and interesting problem as the data in a single tweet is limited by number of characters. The objective of this contest is to design a good prediction algorithm from a collection of tweets.



Machine Learning

Machine learning is a branch of Artificial Intelligence, which, since its inception strove hard to make machines achieve human-level intelligence. A typical machine learning system aims at building a model from known data to predict some valuable information about previously unseen data. In this contest, you are required to solve one such machine learning task.

Who can participate?

Students with basic programming skills and elementary knowledge of machine learning. If you are new to machine learning, the following material would help you get started quickly.

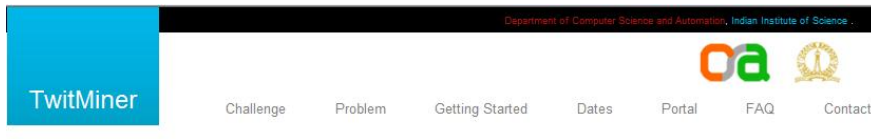
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The Contest

Given a collection of tweets, can you build a system that can categorize them into one of two categories: *politics* or *sports*? Your system will be evaluated based on how well it predicts on unseen tweets. You can participate in this contest in teams (of maximum) two members. The winning team members will get *internship offers* from Amazon.com (with direct interview calls for final year students); also, exciting prizes await the winning and the runner-up teams.



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Contact Us: twitminer2013@gmail.com

Facebook: <http://www.facebook.com/twitminer>

Registrations open from Mar 3rd...

Department of Computer Science and Automation, Indian Institute of Science .

TwitMiner



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Questions?