Applications: What makes Big Data valuable

After this video you will be able to...

 Describe examples from fields where big data has enabled better models which allows for higher precision recommendations or solutions to make the world a better place

What Makes Big Data Valuable?

Big Data



Better Models



What Makes Big Data Valuable?

Big Data



Awesome!

Just what I was
looking for!

Personalized marketing data





What Makes Big Data Valuable?

I like blue plates!





I like gold plates!

Personalized Marketing



Recommendation Engines











I love my new blue plates!
Let me write a review.







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Let me write a review.



Ruined after first wash.

Although I had washed my existing set in my dishwasher (set to air dry) many times without issue, two of the 4 new plates were rulined upon the initial wash. Apparently these are actually clear glass plates with some sort of blue coating, which peeled off during the washing process, leaving me with two partial clear/partial blue plates with visible peeling, I suppose I can try and sort of the remainder of the blue coating and have usable clear plates, however - if I wanted clear plates that is what I would have purchased. Heed the warning to be very careful when washing these.







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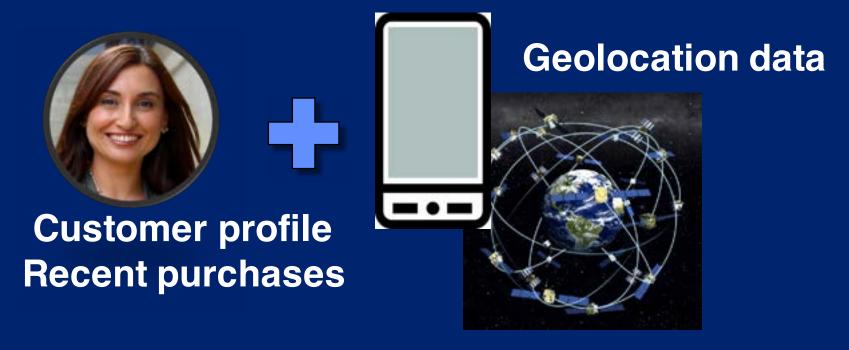
Natural Language Processing







Paint on sale at Home Depot!



Consumer Growth to Guide Product Growth

Consumer Growth to Guide Product Growth

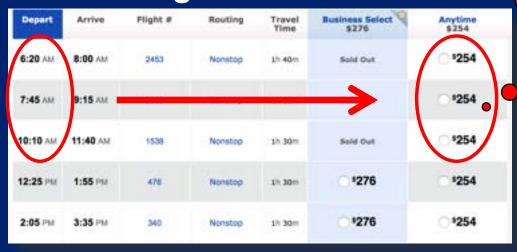


Collective Consumer Behavior



Consumer Growth to Guide Product Growth

Flight Schedule



We like morning flights!

2 billion human genomes sequenced by 2025

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Up to 40 exabytes in storage!

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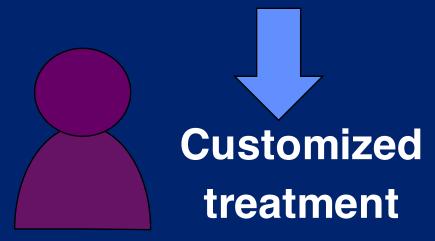
Up to 10,000 trillion CPU hours for processing!

Personalized Cancer Treatment



Personalized Cancer Treatment

Perform large scale analysis of patient genes and tumor growth



The Biomedical Big Data Challenge



How to integrate sources to gain further insight

Big Data-Driven Cities

Smart Cities

- Use city wide sensor data to
 - Lower energy costs, pollution
 - Improve services, traffic, safety, ...



How are other applications using Big Data?

big data to transform bu mance in many areas	siness models	Illustrative
	Manufacturing	
Fraud detection and prevention Supply chain optimization Dynamic pricing	Product research Engineering analytics Predictive maintenance	Process and quality analysis Distribution optimization
Anna James	Media and telecommunications	
Fraud detection Portfolio analysis	Network optimization Customer scoring	Churn prevention Fraud prevention
tions	Energy	
Sentiment analysis Customer acquisition	Smart grid Exploration	Operational modeling Power-line sensors
	Healthcare and life science	os.
Econometrics Health informatics	Pharmacogenomics Bioinformatics	Pharmaceutical research Clinical outcomes research
	Fraud detection and prevention Fraud detection and prevention Supply chain optimization Dynamic pricing Fraud detection Portfolio analysis Customer acquisition Econometrics	Fraud detection and prevention Supply chain optimization Dynamic pricing Fraud detection Fraud detection Fraud detection Fraud detection Portfolio analysis Sentiment analysis Customer acquisition Fraud detection Fraud

Smart and personalized business!

Big Data



Better Models



Higher Precision

Personalized Marketing
Personalized Medicine
Smart Cities
< and more! >