

#### **Speeding up Machine Learing on GPU**

Danny Bickson Co-Founder

## **GraphLab Project History**





# GraphLab Conferences 2012 2013 2014





#### Saturday, October 11, 2014

#### News from Recsys - GraphLab Create based solution wins second place

Yesterday I met Robi Palovicz at ACM Recsys. Robi is a PhD from The Hungarian Academy of Sciences, supervised by my friend and Colleague Andras Benczur. Robi was leading the team who won 2nd place at the Recsys challenge 2014.



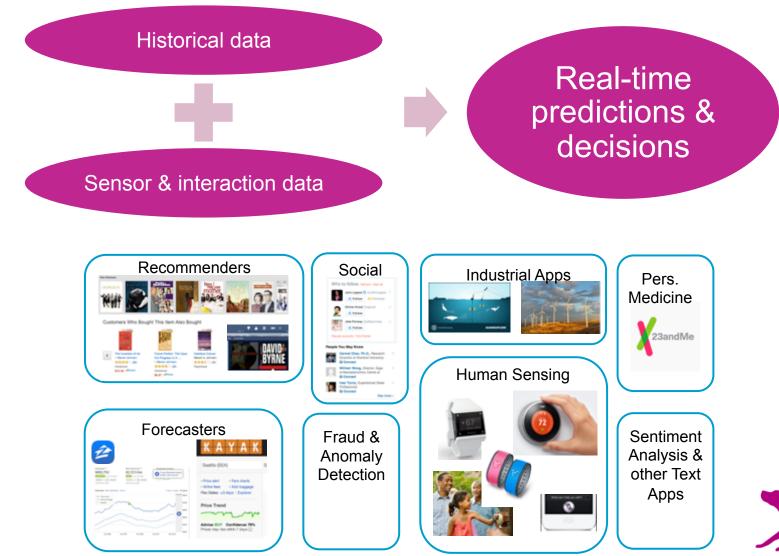
His solution was based on Graphlab Create, and more interesting, it takes only 30 seconds to compute the winning solution with GraphLab Create!

Pobi have promised to share their wipping colution using an Inuthen Netsheek. Once it is ready



The algorithms are reported in the following

# Data-driven, *predictive data apps* are making our world amazing...



Was using 217 business rules hoping world doesn't change

Have an inspiring idea to reinvent their business

# Building a predictive app

#### Noisy Space of Tools



Data scientists use a variety of tools, across different programming languages... require a lot of context-switching... affects productivity and impedes reproducibility.

> Ben Lorica, Data Analysis: Just one component of the Data Science workflow

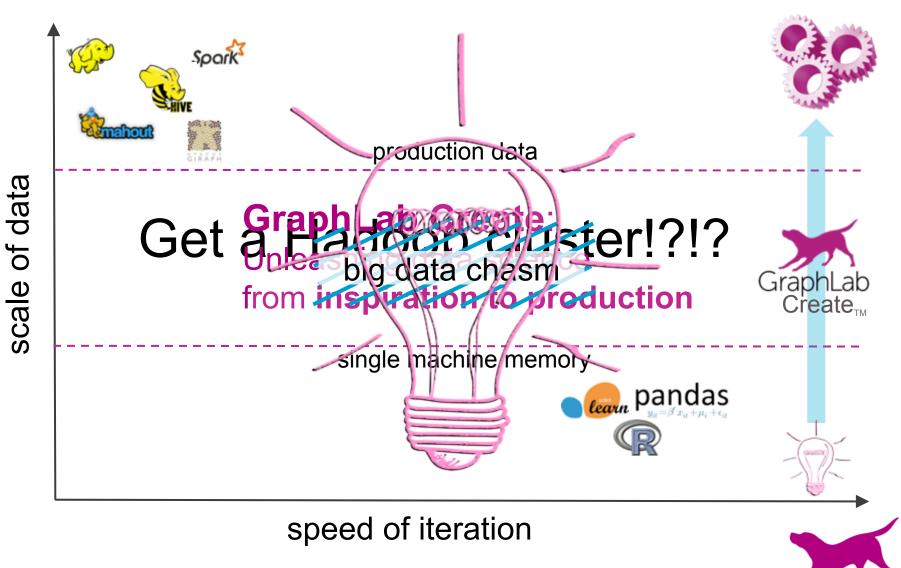
#### Hiring Talent



35% Shortfall in data-savvy workers needed to make sense out of big data by 2018 [McKinsey 2011]



# Crossing the Big Data Chasm



### Data scientist: inspiration to production

Learn

data pipeline

Clean

#### Prototype

#### Production

predictive service

Monitor

Use my laptop Variety of data Not toy data scales Language I love Iterate quickly



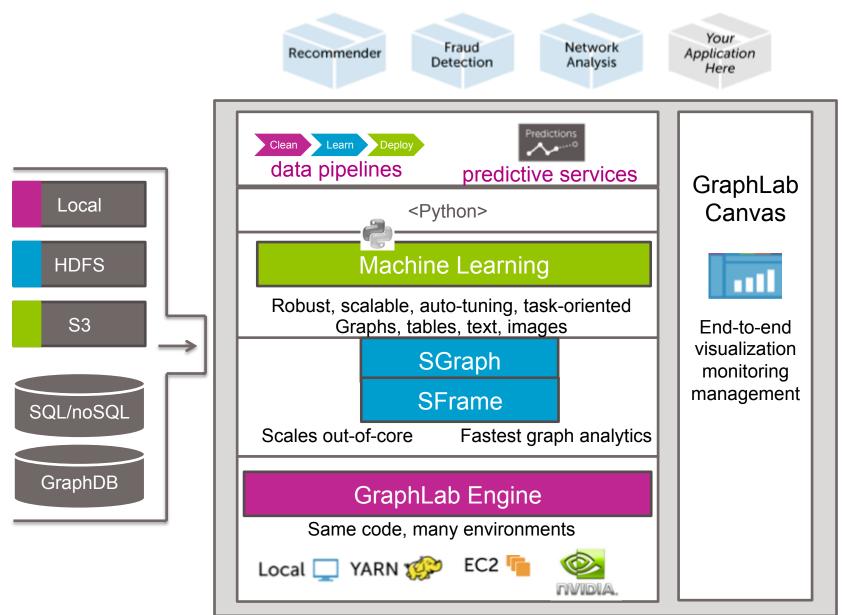
## **GraphLab** Create

Analyze big data on one machine graphs, tables, text, images in Python doesn't have to fit in memory

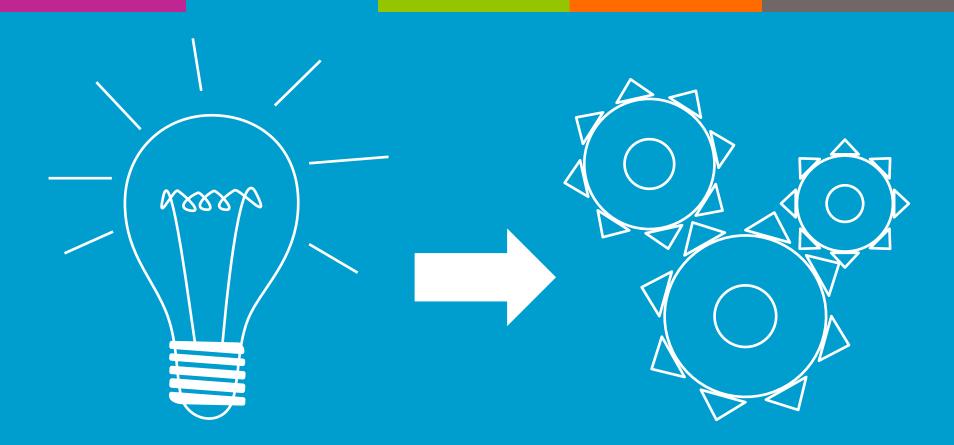
Distribute in production with same code on EC2, Yarn,...

GraphLab Canvas: Monitor & visualize from prototype to production









pip install graphlab-create

@graphlabteam





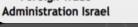
# TECHNOLOGY INNOVATION ROUNDTABLE ISRAEL

#### NOV 5, 2014

Government of Israel



Foreign Trade





HP (Platinum Sponsor)



Lenovo (Gold Sponsor)



DELL (Gold sponsor)

Administration Israel