GETTING PAST

“IS THIS TIME DIFFERENT”

@roybahat
Computer Research Association
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WHO ARE YOU?

> Early VC fund to focus on machine intelligence – 2014

> Exclusively invest in future of work
Machine Intelligence Landscape

Core Technologies
- GRIDSPACE
- popUP archive
- Nuance

Rethinking Enterprise
- Sales
  - Reas
  - Avizo
  - NGDATA
  - Dataclarity
  - MathWorks
  - Fiddler

- Security / Authentication
  - ClamAV
  - Google SafeSearch
  - NetWitness
  - Microsoft

- Fraud Detection
  - SiftScience
  - Thales
  - Left eye
  - BrighterNow

- HR / Recruiting
  - TalentBin
  - Predictive Recruit
  - ConnectSRA
  - Grid

- Marketing
  - HubSpot
  - AdWords
  - MarketMuse
  - Image Recognition

- Personal Assistant
  - Siri
  - Google Now
  - Microsoft Cortana

- Intelligence Tools
  - Amazon Alexa
  - IBM Watson
  - Microsoft Azure

Rethinking Industries
- AdTech
  - RocketFuel
  - YieldLux
  - AdRoll

- Agriculture
  - Blueberry
  - Acxiom
  - Telent

- Education
  - Coursera
  - Instructure
  - Sakai

- Finance
  - Bloomberg
  - Adobe
  - Day
t

- Legal
  - Tharstern
  - Covington & Burling
  - Vorys

- Manufacturing
  - GE
  - Siemens
  - Rockwell Automation

- Medical
  - IBM Watson Health
  - GE Healthcare
  - Siemens Healthineers

- Oil and Gas
  - Shell
  - ExxonMobil
  - ConocoPhillips

- Media / Content
  - Outbrain
  - Newsroom
  - Aria

- Consumer Finance
  - Affirm
  - Klarna
  - PayPal

- Philanthropies
  - DataKind
  - thorn

- Automotive
  - BMW
  - Ford
  - Tesla

- Diagnostics
  - GE Healthcare
  - Siemens Healthineers
  - Abbott

- Retail
  - Amazon
  - Walmart
  - Target

Rethinking Humans / HCI
- Augmented Reality
  - Magic Leap
  - Leap Motion
  - Pico

- Gestural Computing
  - Myo
  - gesture
  - GoKinect

- Robotics
  - Boston Dynamics
  - Honda
  - Toyota

- Emotional Recognition
  - IBM Watson
  - Google
  - Microsoft

Supporting Technologies
- Hardware
  - Intel
  - AMD
  - NVIDIA

- Data Prep
  - Tableau
  - Alteryx
  - KNIME

- Data Collection
  - Google Analytics
  - Amazon Web Services
  - Microsoft Azure

www.shivonzis.com/machineintelligence
Who Is Winning the AI Race?

Giant corporations are hoarding the world’s AI talent.

How to Make Your Company Machine Learning Ready

The competitive landscape of AI.

As Robots Rise, How Artificial Intelligence Will Impact Jobs
Techie: "The future is coming! Duck!"

Economist: "Total employment always turns out fine."

Chorus: "It isn't just about work, it's about meaning." "We need a new social contract." “Gig Economy! Lifelong learning!”

Complexity collapses our ideas to pablum
WHY ARE WE REPEATING OURSELVES?

> Good ideas but nobody is listening

> No good ideas
How many jobs will robots take?
Only question that matters:

When?
COMMISSION ON WORK, WORKERS, AND TECHNOLOGY
SHIFT’S PRINCIPLES

Imagine scenarios (not predict)

Take 20-year view

Involve many disciplines
Shift Commission—Four Futures for Work

New America and Bloomberg

- **Rock-Paper-Scissors Economy**
  less work. mostly tasks.

- **King of the Castle Economy**
  less work. mostly jobs.

- **Jump Rope Economy**
  more work. mostly tasks.

- **Go Economy**
  more work. mostly jobs.

The issue is not automation per se, but expectations of automation, and its speed and unpredictability.
How Do You Get Paid?

- 6.3% — I'm not getting paid right now
- 27.8% — It depends on the week
- 17.5% — It depends on the month
- 45.8% — Same amount every month
- 2.6% — Other
The issue is not automation per se, but expectations of automation, and its speed and unpredictability.

We have too few good hypotheses for what to do.
FORAGING GROUNDS?

> Data desert – esp. on volatility

> Accelerating technological progress – R&D

> Occupational clusters – and entrepreneurship?
Is this time different?

Yes
No
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