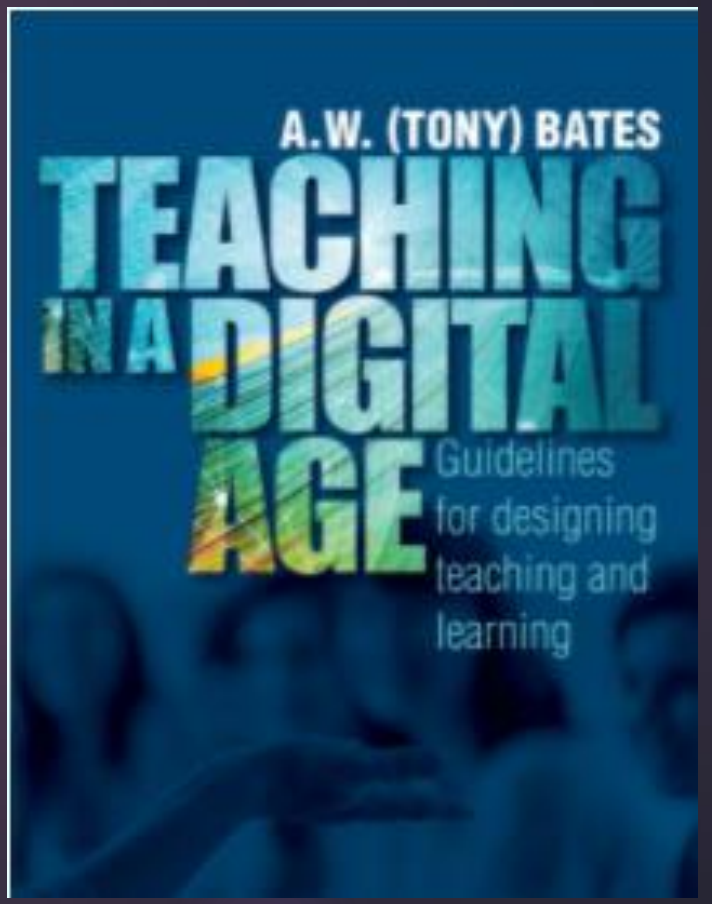
Teaching in A Digital Age



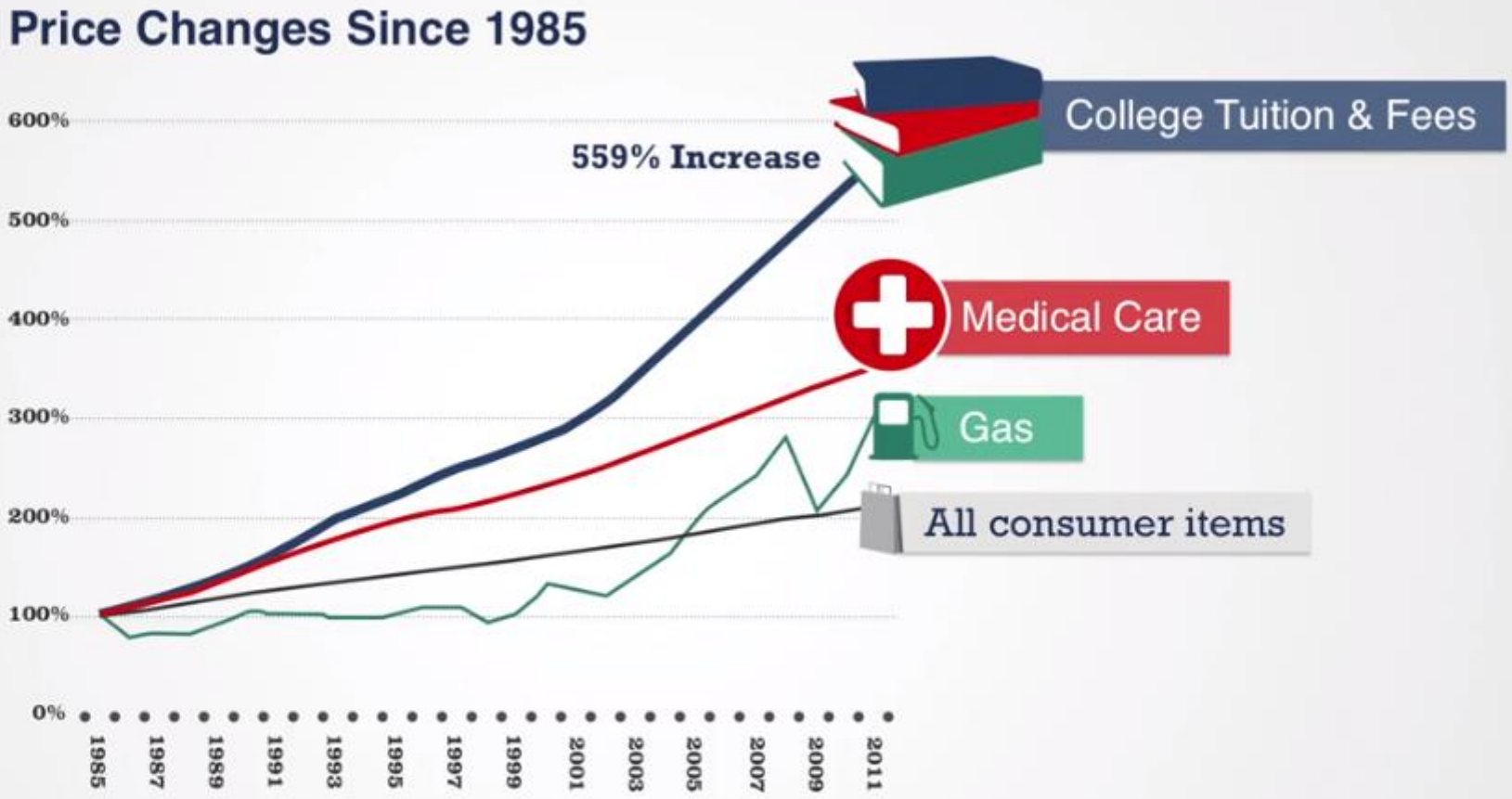
Afshin Sarafi Nejad

MD., PhD.

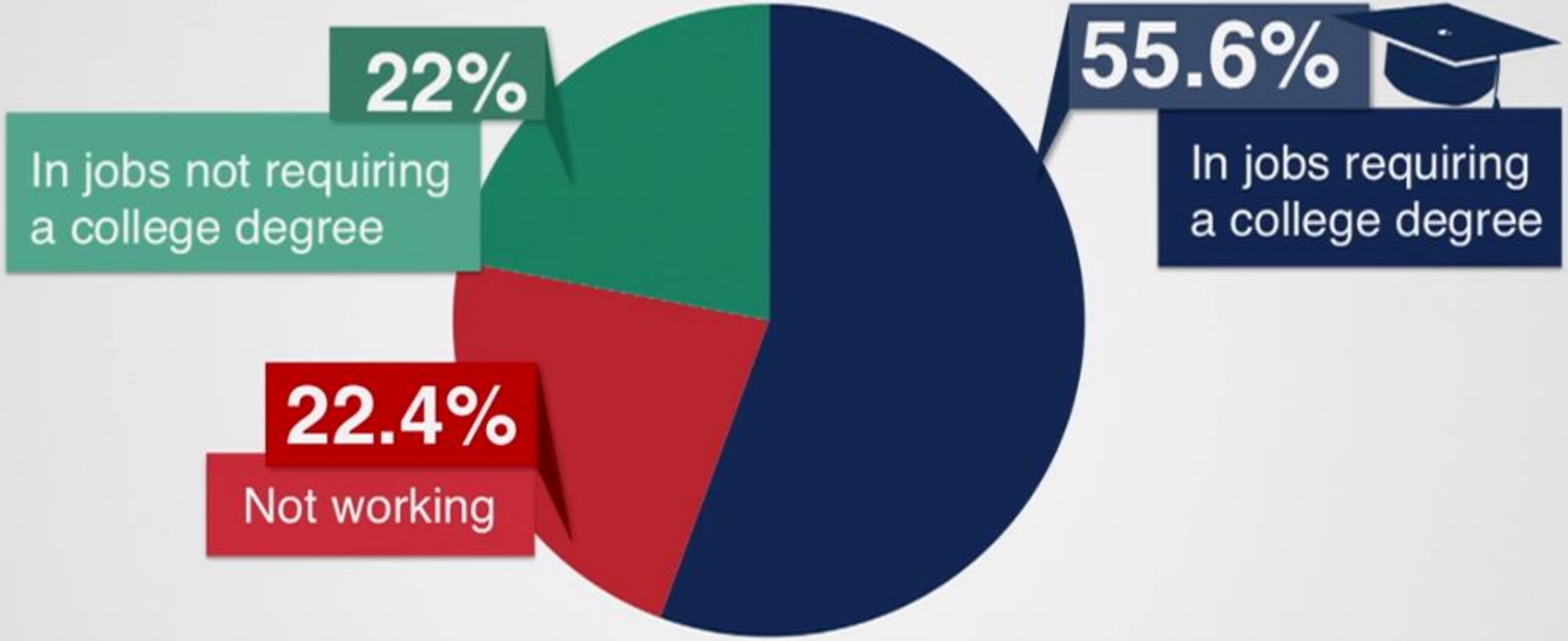
KMU-VUMS

Daphne Koller | TEDGlobal 2012

What we're learning from online education



Affordability

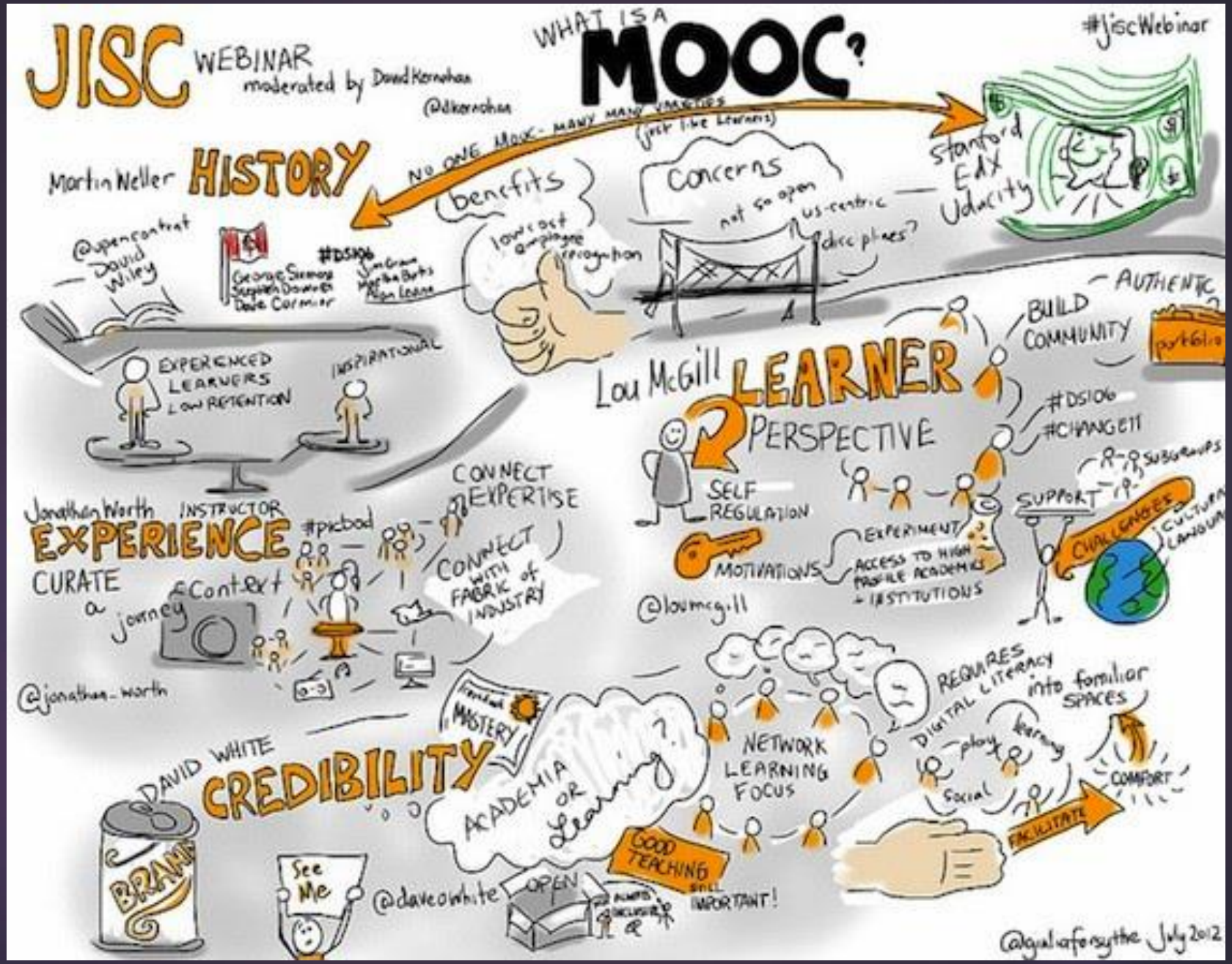


Source: "A College Degree, but Not a College Job." (A. Sum, *New York Times*, 19 May 2011)

Opportunity

The Online Revolution: Education for Everyone

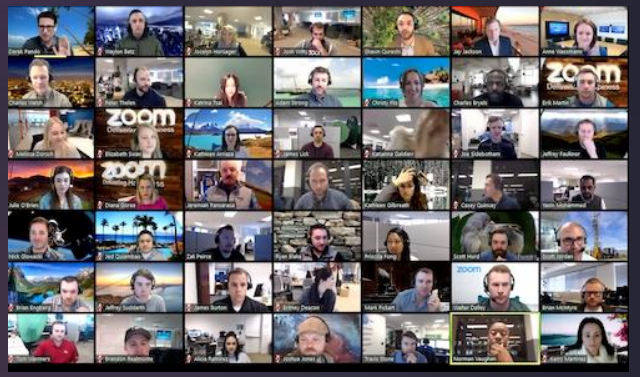
Daphne Koller & Andrew Ng
Stanford University & Coursera


JISC WEBINAR moderated by David Kernohan @dkernohan
#jiscWebinar
WHAT IS A MOOC?
NO ONE MOOC - MANY MANY VARIETIES (just like Learners)
Martin Weller HISTORY
benefits
concerns
not so open
US-centric
Stanford EdX Udacity
@opencontent David Wiley
#DS106
EXPERIENCED LEARNERS LOW RETENTION
INSPIRATIONAL
Lou McGill LEARNER PERSPECTIVE
BUILD COMMUNITY
AUTHENTIC
#DS106 #CHANGE11
SELF REGULATION
MOTIVATIONS
EXPERIMENT
ACCESS TO HIGH PROFILE ACADEMICS + INSTITUTIONS
SUPPORT
CHALLENGES
@loumcgill
Jonathan Worth INSTRUCTOR EXPERIENCE
CURATE a journey &Context
#picbod
CONNECT EXPERTISE
CONNECT WITH FABRIK of INDUSTRY
@jonathan_worth
DAVID WHITE CREDIBILITY
ACADEMIA OR Learning?
NETWORK LEARNING FOCUS
REQUIRES DIGITAL LITERACY
into familiar SPACES
play
learning
social
COMFORT
FACILITATE
GOOD TEACHING STILL IMPORTANT!
OPEN
BRAND
See Me
@daveowhite
@lauraforsythe July 2012

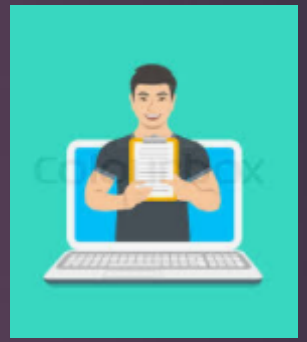
MOOCs

- **Massive**
  - Huge Numbers of Educators and Learners
- **Open**
  - No Limitation or Pre-Requisites for Participating, Free Access
- **Online**
  - Mostly Online, Sometimes Blended Format
- **Courses**
  - A Whole Course

Specifications



- **Specially designed platform software**
  - registration of very large numbers of participants
- **Video Lectures**
  - normally available on a weekly basis
- **Computer-marked assignments**
  - online test and immediate computerized feedback
- **Peer assessment**
  - small groups of students for collaboration on problem solving
- **Supporting materials**
  - slides, audio files, PDFs, URLs, or articles

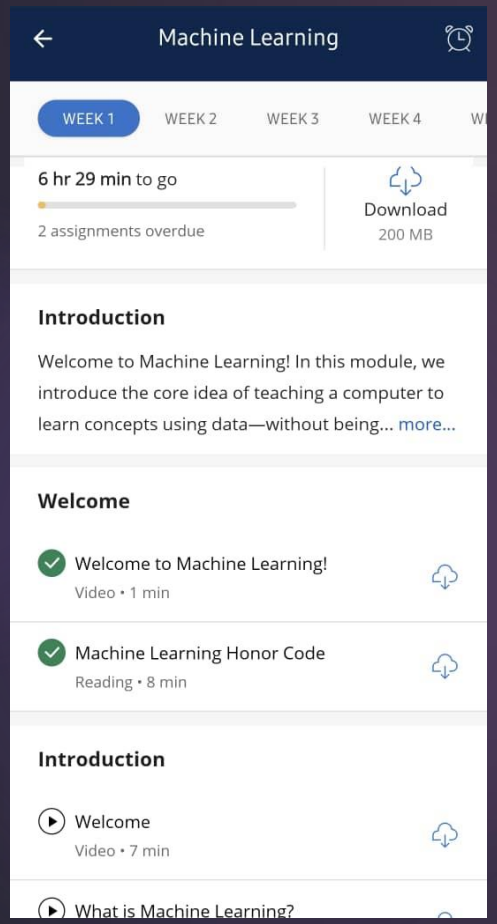


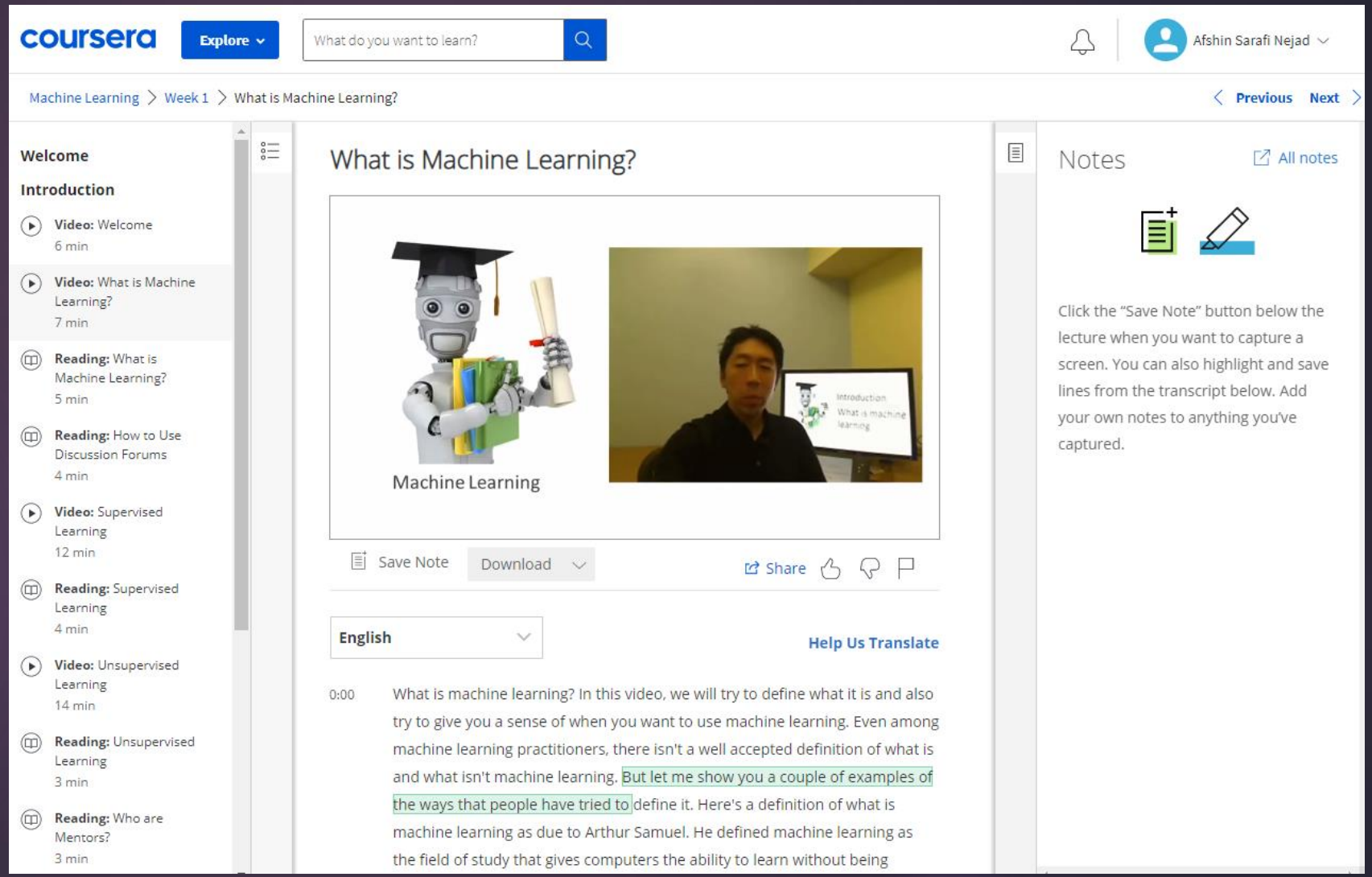
Specifications (Cont.)

- **A shared comment/discussion space**
  - everyone can post questions, ask for help, comments, …
- **No, or very light, discussion moderation**
  - all should be able to discuss, but moderation is a challenge
- **Badges or certificates**
  - not even as credit, but good for encouragement
- **Learning analytics**
  - should be able to analyze big data
- **Autonomy of the learner, diversity, interactivity, open-ness**
  - personality, skills, co-operation, communication, freedom, …

An Example – Machine Learning

- **Almost all of the features are here!**





با تشکر از توجه شما