## 2018 Open edX conference

May 29-31, 2018

# Building a scalable, blockchain-enabled multisite site skills network

Leon Katsnelson, Rav Ahuja, Luiz Aoqui

## Just Launched on edX.org

#### **Special Offer**

One year of IBM Watson Assistant services to power 10 chatbots at no charge.

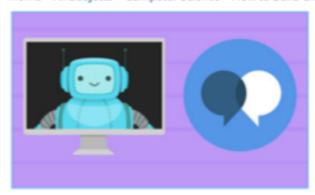
A perfect way to kickstart your chatbot building business!



Search: Q

Leon\_at\_IBM ▼

Home > All Subjects > Computer Science > How to Build Chatbots and Make Money



#### How to Build Chatbots and Make Money

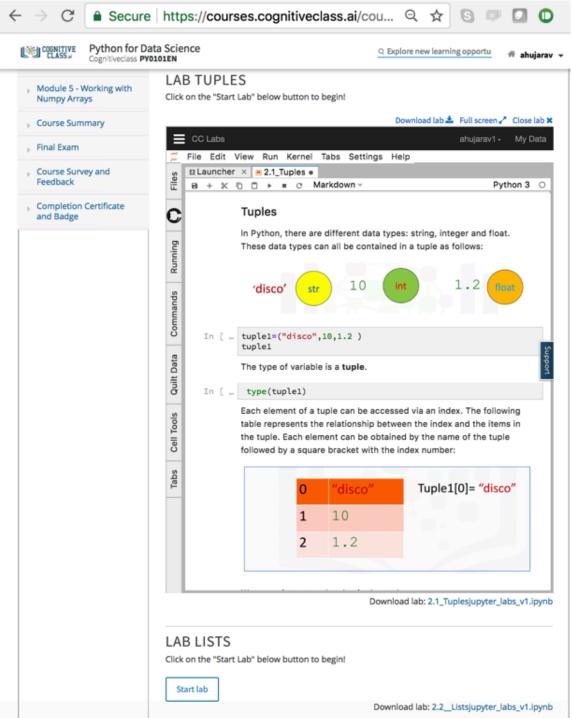
Chatbots are increasingly in demand among businesses. By taking this course, you'll learn how to build, test, analyze, and deploy chatbots. You'll also learn how to make money by selling chatbot services to clients online and offline.



Self-Paced

#### **Enroll Now**

 I would like to receive email from IBM and learn about other offerings related to How to Build Chatbots and Make Money.



from practical skills to credentials on blockchain



#### writtingte name

course-y1:intelsedu+0X818606+v8

#### issued at

Tue Aug 15 2017 06:44:89 GKT-8000 (UTC)

#### of the sales

This certificate is awarded in recognition of full participation and successfully passed the final exam in an intensive four-day data science bestcamp taught by IBM instructors. The bootcamp covered the following topics indepth: data science fundamentals, data enelysis in Python (including pendes and scikit-lears), Jupyter notebooks, data wisualization in Python (including matplottib and folium), machine learning with Python Eincluding decision trees, random forests, knearest neighbours, k-means clusteringl, computer vision in Python with OpenCV and ISM Watson Visual Recognition, charbots with ISM Watson Conversation, big data with Apache Spark, and deep learning with TensorFlow. The bootcamp involved a combination of theoretical as well as extensive hands-on practice. To learn more about the IBM Data Science Bootcamp, go to: https://courses.bdu.intelaedu.com/courses/coursev1: intelendu+8X81860%+v8/about

#### Wallet 2

#### Certificate ID

6583993 f - F795-48ac-a65 f -a664684c5929

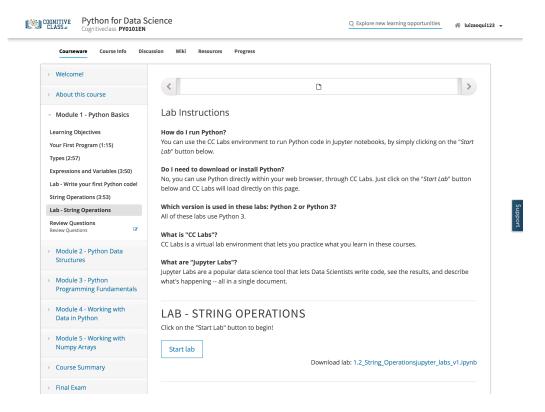
#### Certificate hash

7258c1772a72ac5434adea2bde8c2b82f4253c3c5497e 55beae45a813ac564d888afd575f38975b35d387aa59e7 d36afed885396813cb35bdc48cffe31566b8

#### The Challenge

- 2016: Challenged to keep up with explosive growth using another LMS
- Demand for white labeled version from clients, universities and education partners:
  - Enterprise integration e.g. SSO
  - Integrated support for learners
  - Certificates and digital badges
  - Customization: custom content, custom learning paths and data sets
- Quickly provision Private Skills Platforms for clients World Wide:
  - Hosted or
  - On-prem behind firewall
- Embedded hands-on labs: no software to download, install and configure

#### **Embedded Labs**

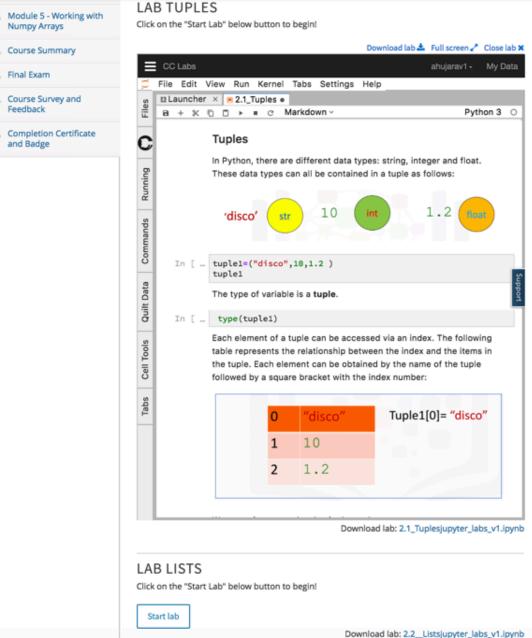




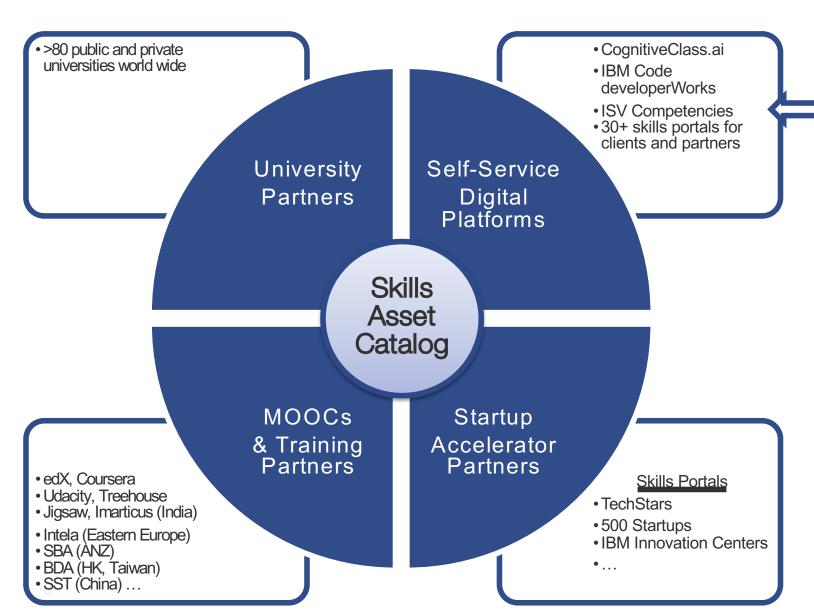


Q Explore new learning opportu

# ahujarav -



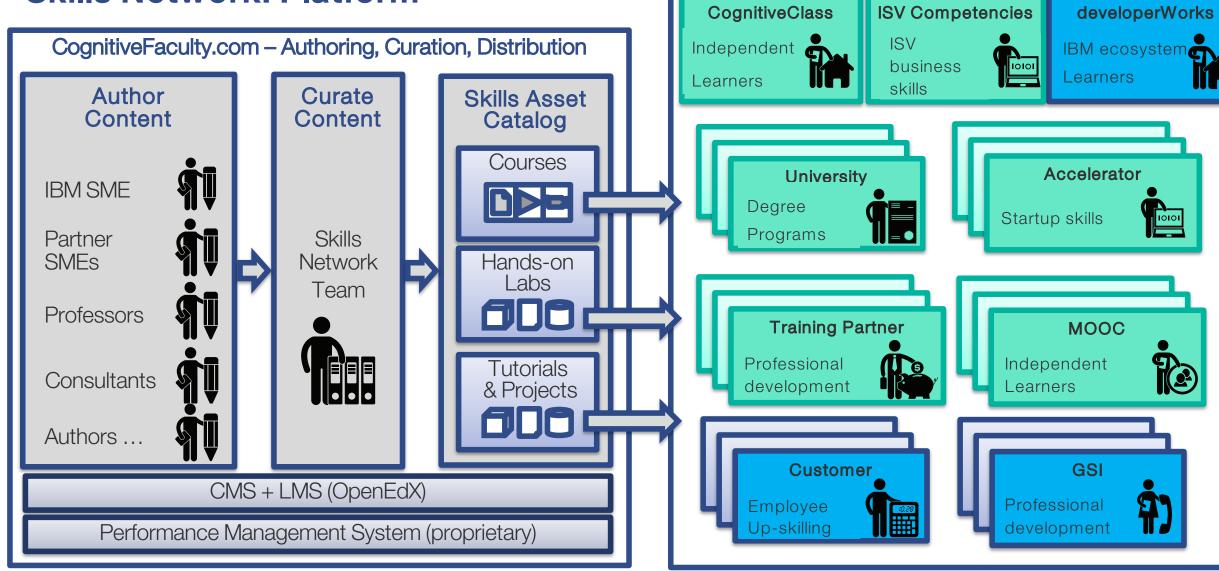
#### **Solution: Global Skills Network**



Digital Platform Reach	
Courses	70+
Competencies and Learning Paths	18+
Registered learners	1.1M
Course Enrolments	2M
Certificates Issues	500 K
IBM Badges Issued	237K
NPS	51



#### **Skills Network: Platform**





10101

Skills Network – Learning & Certification

#### **Private Skills Instance**

- CMS + LMS (OpenEdX)
- Management Console
- Your own course catalog with subscription to the new and updated materials from our global catalog (like Apple App Store)
- Virtual Lab Environment no need to download or install software. Big systems for Big Data
- Competition Management System like Kaggle but you are in full control
- Support and ticketing system for your users or integrated with your existing system

#### CORNELL UNIVERSITY IBM SKILLS CENTRE

HANDS-ON SKILLS FOR THE 21ST CENTURY

#### Recommended Learning Paths

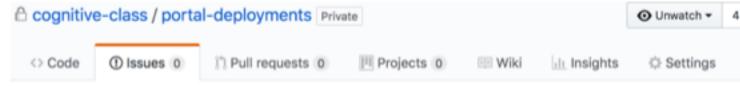


Choose a Learning Path below to discover which courses you should take:









# **Quickly Provision Private Skills Instances**

**Step 1**: Request Cognitive Class for Business/Education. Choose on-prem or hosted.

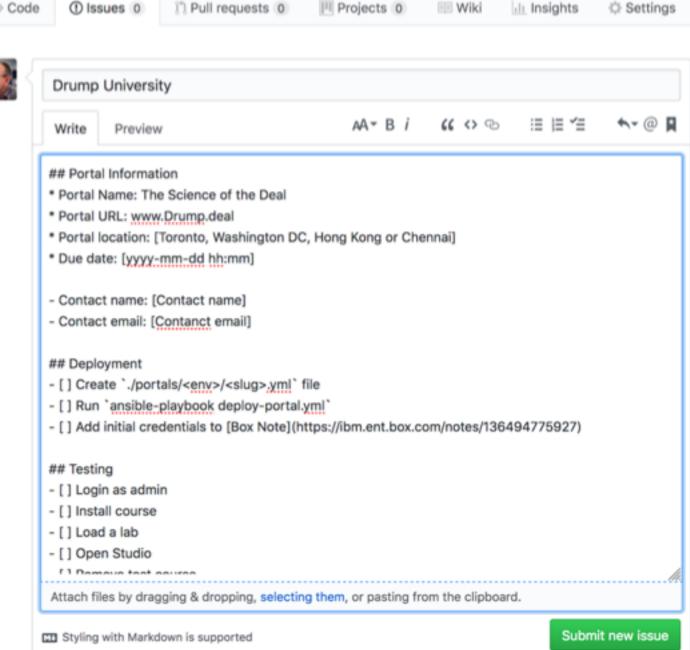
**Step 2**: Get a quick training session (30-minute web conference)

Step 3: Customize look and feel, authorizations, course catalog, learning paths

Step 4: Launch portal in your organization

Step 5 (optional): Author your own courses

Step 6: there is no step 6.



University of Antarctica School of Continuing Studies

#### Demo Time!



Learning Paths





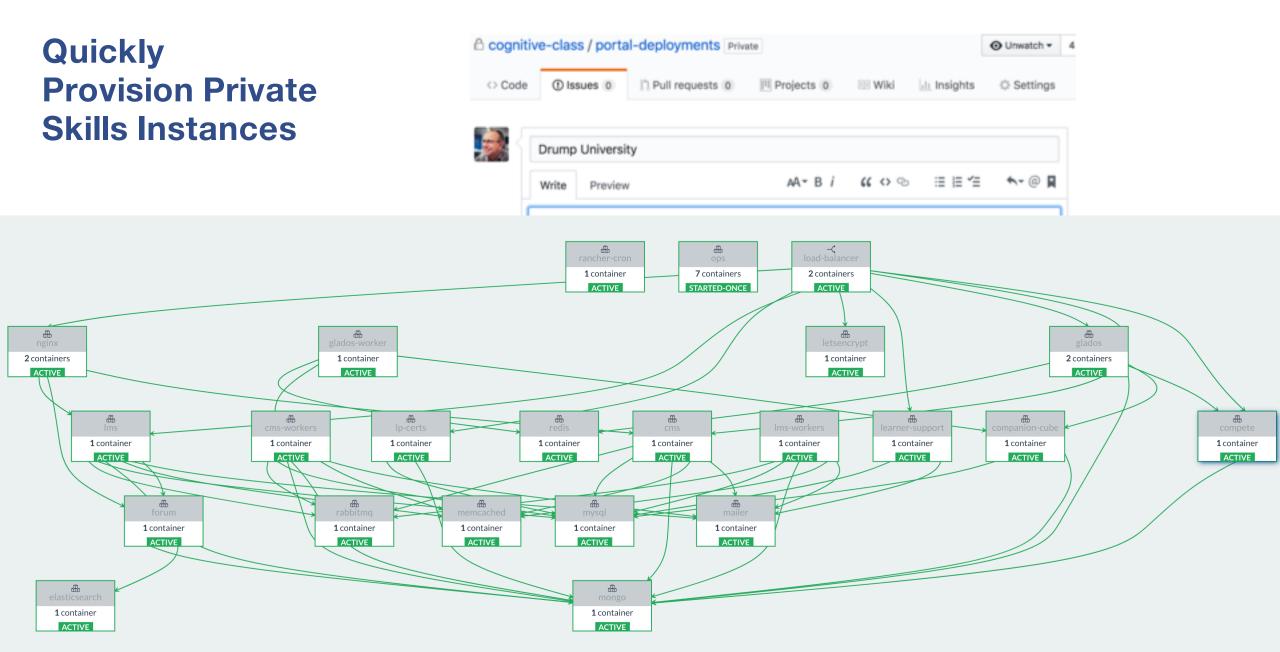












### What about BLOCKCHAIN





#### **Academic Credentials Blockchain**

#### Problem we are solving:

- Prevent credentials fraud (multi-billion \$ problem)
- Reduce credential verification from months to seconds
- Return data to its rightful owner i.e. student

#### Status:

- Developed an Open edX Xblock for issuing certificates on blockchain
- Successful PoC of a permissioned blockchain. Issued first set of 425 certificates

#### Next steps:

- Building a consortium of academic institutions, MOOC platforms, and technology providers
- Make code Open Source



