

# PERSONALIZED MOOC RECOMMENDATIONS

*MOOCREC V2*

---

MOOCs, chosen just for you.

coursera

UDACITY  
Learn. Think. Do.

edX

canvas  
NETWORK

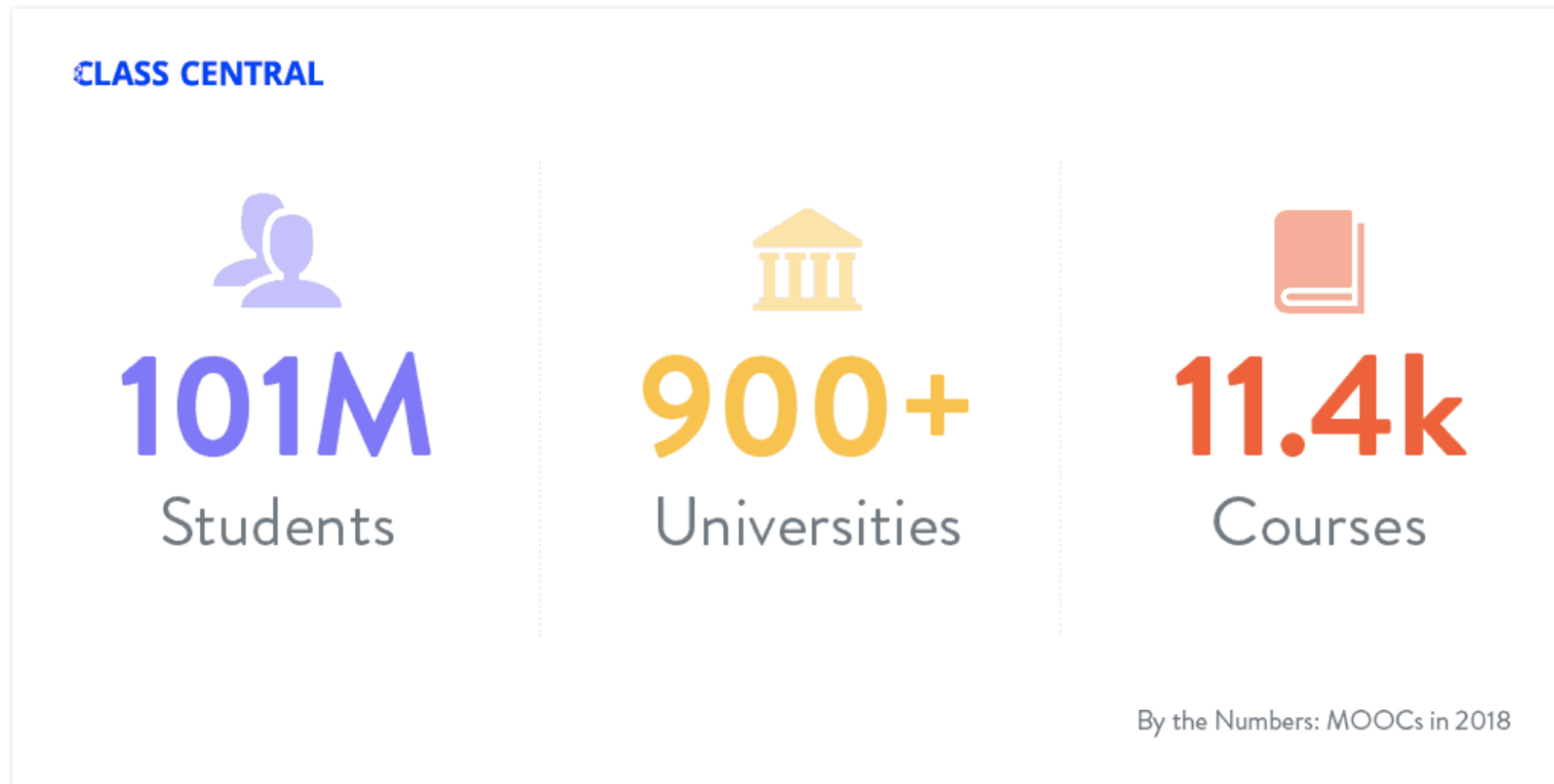
NovoED

iversity

OPEN  
2 STUDY

Future  
Learn

# AN OVERVIEW OF MOOCS



Source:  
<https://www.class-central.com/report/moocs-stats-and-trends-2018/>

Figure 1: MOOCs Statistics from Class Central

# PROBLEM

- ✓ MOOCs have different video production styles
- ✓ MOOCs have a low completion rate
- ✓ Consumers prefer different types of video production styles
- ✓ Lack of connection between MOOC recommenders' and consumers' preference for video production styles
- ✓ No personalization exists for MOOC recommendations

# SOLUTION



Your personalized MOOC Recommender

# FEATURES

- ✓ Identifying your preferred video styles for learning.
- ✓ Identify all prominent video styles in e-learning courses.
- ✓ Automatically analyzing forum discussions to provide popular online courses.
- ✓ Identifying user's learning style based on their preferences.

# CONCLUSION

Matches the user with the type of learning that he/she requires.

THANK YOU





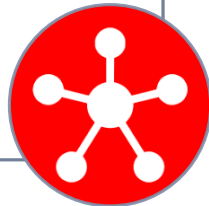
# GENERAL OBJECTIVES

- ✓ Identifying user's learning preferences by a more interactive method
- ✓ Implement support for parallel processing to significantly improve performance
- ✓ Improve MOOC recommendations based on information within discussion forums
- ✓ Add support for categorizing newer & more complex video styles

# SPECIFIC OBJECTIVES

- A catalogue of MOOCs from most popular providers
- Forum activity across platforms are analyzed automatically

Hub for  
MOOCs



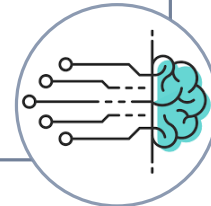
- Provide MOOCs that match the consumers' preferences
- Use the sentiments of other users

Personalized  
MOOCs



- Accurately classify a wide range of video production styles
- Efficiently classify using parallel processing

Image  
Classification



# MOOCREC V1 DRAWBACKS

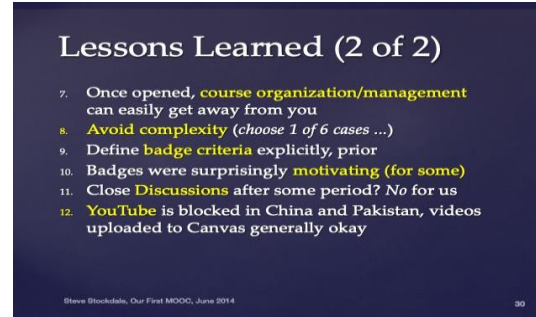
- ✓ A solution proposed by a previous research
- ✓ Proposed solution, MOOCRec V2 extends up on MOOCRec V1
- ✓ Identifies learner styles using a lengthy questioner
- ✓ Covers only a few video production styles
- ✓ Inefficient video classification

# COMPLEX VIDEO PRODUCTION STYLE CLASSIFICATION

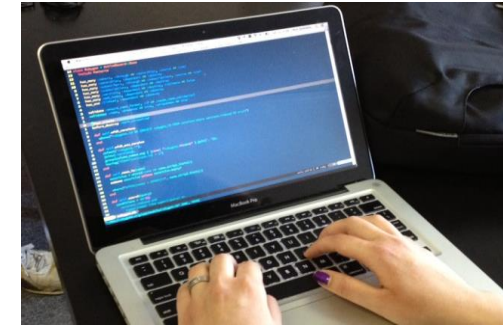
✓ Different types of MOOC video production styles



Talking Head



Presentation slides  
with voiceover



Coding/Demonstration



Conversations



Writing



Animation

# COMPLEX VIDEO PRODUCTION STYLE CLASSIFICATION

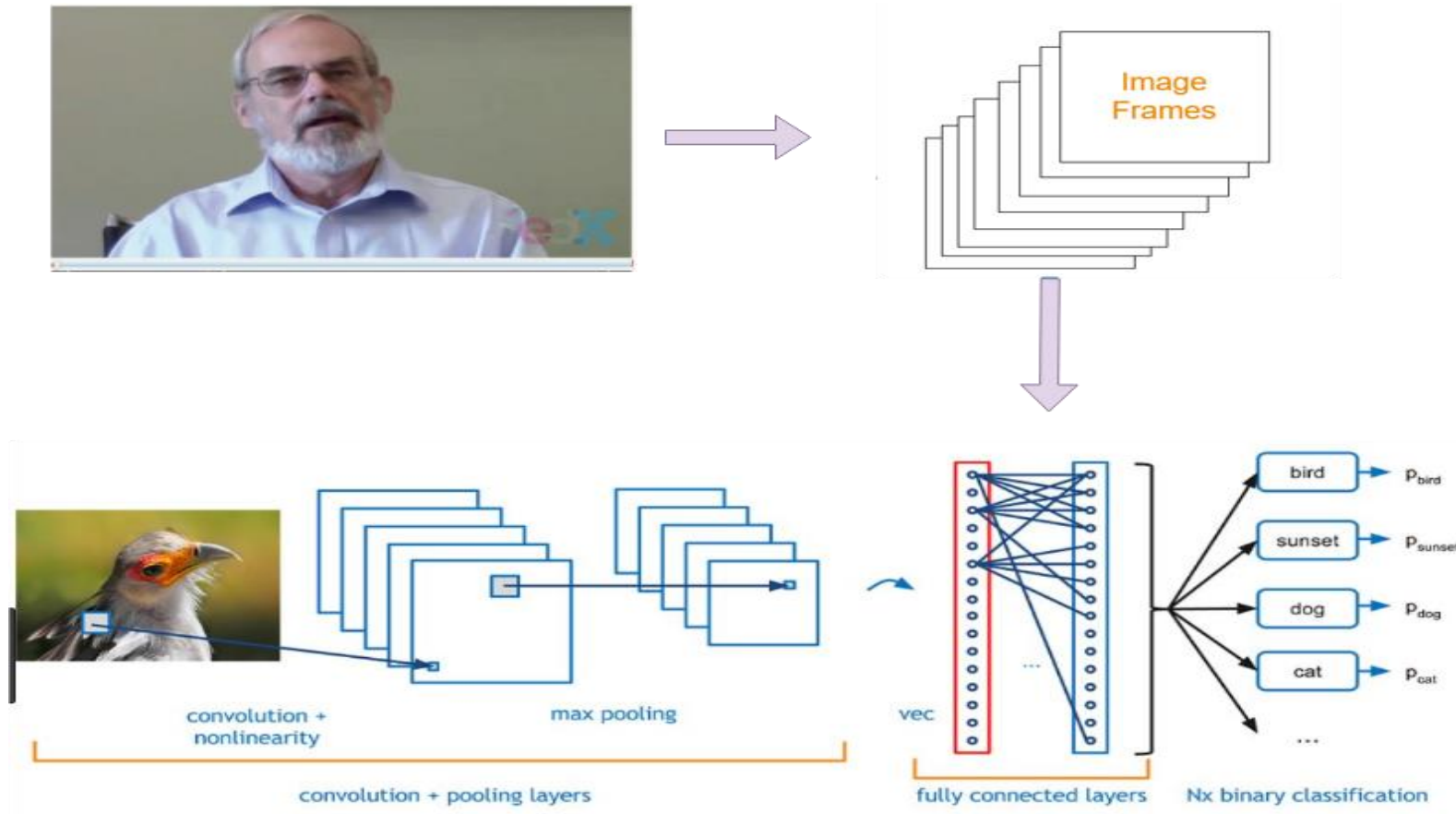


Figure 3 : Video Classification

# IDENTIFYING USER'S PREFERRED LEARNING STYLE

- ✓ Identified using an interactive introductory video
- ✓ Intro video contains MOOCs learning material types recognized by MOOCRec V2
- ✓ Learning material types and [Felder Silverman Learning Style Model](#) are mapped
- ✓ Mapping is introduced based on literature survey

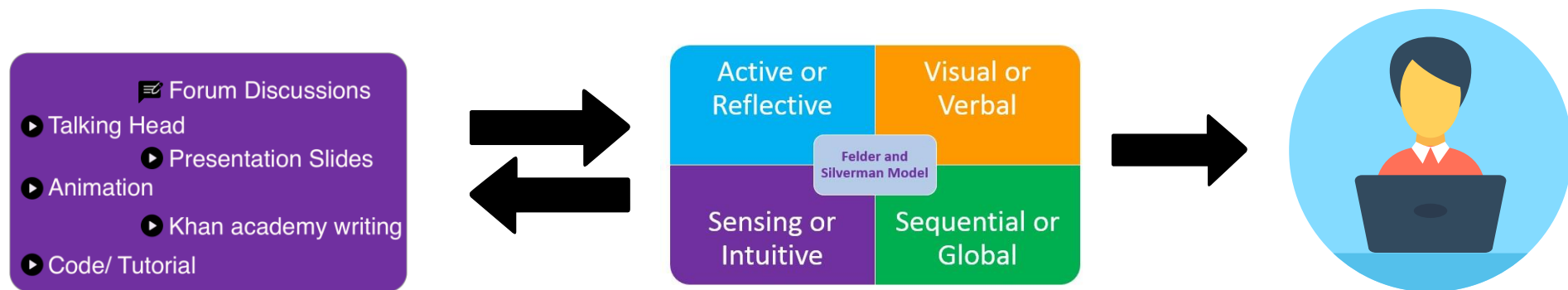


Figure 6: Learning Material Type to FSLSM Mapping

# IDENTIFYING USER'S PREFERRED LEARNING STYLE PROCEDURE

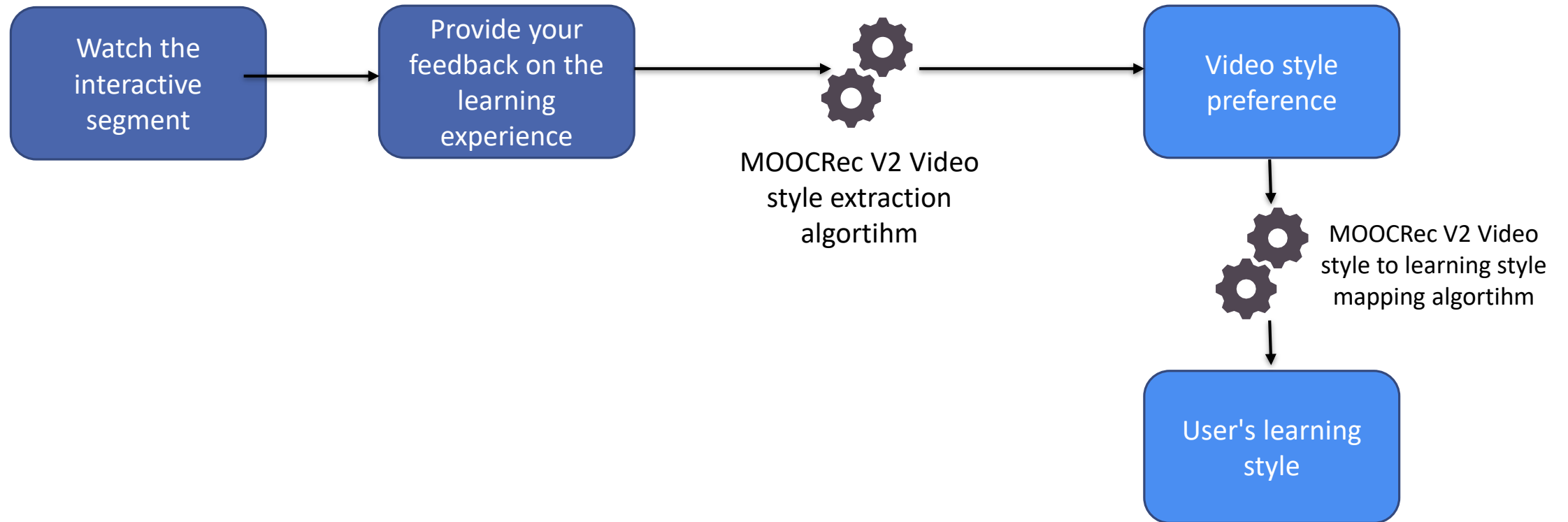


Figure 9 : Procedure of identifying User's Preferred Learning Material