

Shiny Apps for Non-R Users: Assessment Analyzer in R

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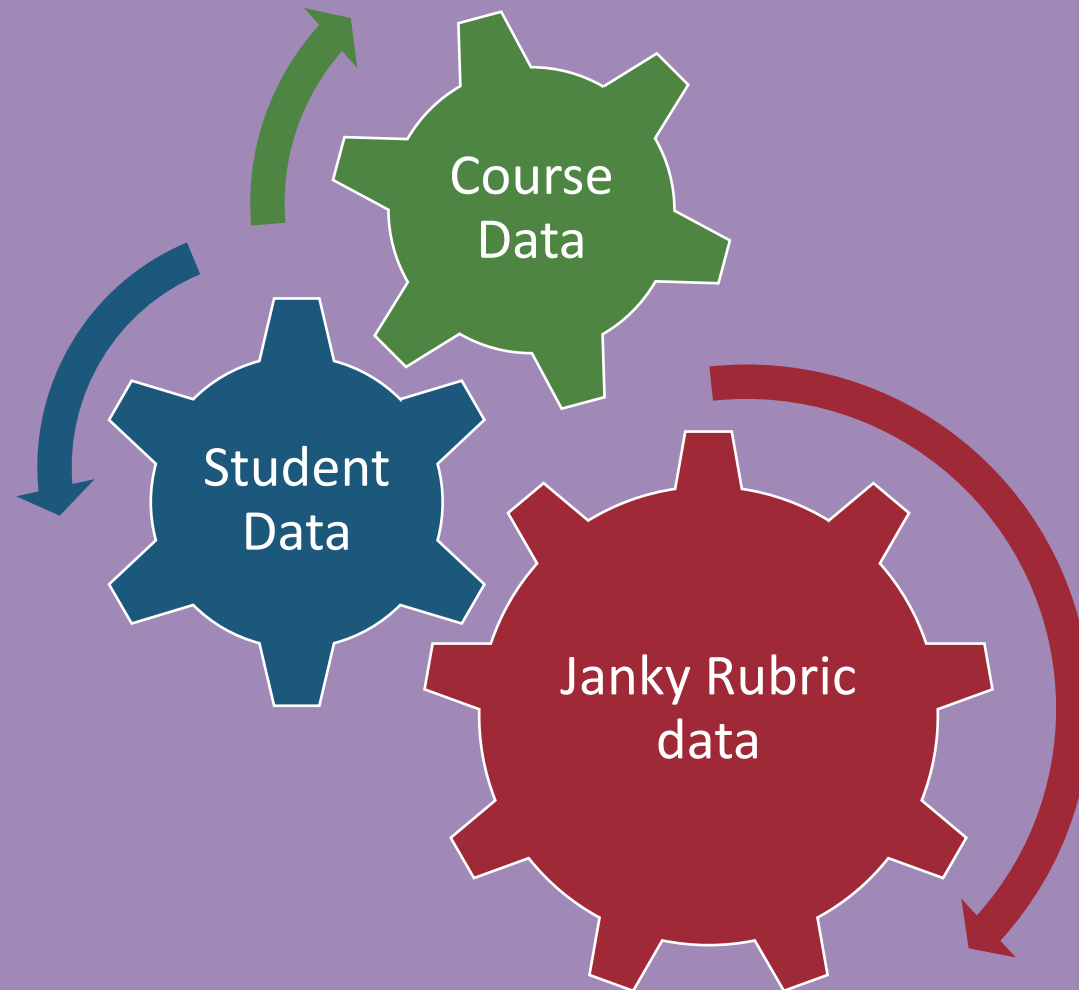
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Senior Research & Data Analyst::Concordia University Chicago

Powerful R Tools for a Non-R user



Student, Faculty, Course and Rubric Data in two systems: Banner & Blackboard



R Shiny Processing

Combine Files

Blackboard
Data

Student Data

Course Data

Select/Filter/Assign Value

Assessment
Type(s)

Scoring Scale
(numeric 0 – 5)

Create Excel File

Formatted
Workbook

One worksheet
per rubric

One worksheet
summarizes by
student

import -> join -> filter -> select

R-AA Load Select Configure Majors

Choose Assessment Data
Browse... All_KAs_LAs_and_CDAs_NEV
Upload complete

Choose Student Data
Browse... Mar-18-2019_student.csv
Upload complete

Choose Course Data
Browse... courses.csv
Upload complete

Combine

R-AA Load Select Configure Majors

Subjects:

- ☐ CED
- ☐ DBA
- ☒ ECE
- ☐ ECO
- ☐ EDL
- ☐ EDSC
- ☐ EDSP
- ☐ EDT
- ☐ EDU
- ☐ EDUC
- ☐ ESL
- ☐ MRAC

Terms:
☒ 201920

Types

- ☒ KAa
- ☒ KAb
- ☒ KA

Select Assessment Types

mutate -> create tables -> export

Exceeds Expectations
4

Meets Expectations
3

Does Not Meet Expectations
2

Progressing Toward Expectations
1

Save Scale

Select Majors

- ☒ CI
- ☒ ECE
- ☒ ECSE

Major Descriptions

- Curriculum and Instruction(CI)
- Early Childhood Education(ECE)
- Early Childhood Special Educ.(ECSE)

R-AA Load Select Configure Majors & Campus Codes Produce

Build Workbook

Download Data

Spreadsheet ready for delivery

Building a Computer Lab _KA2				
Standard	Approaching	Does Not Meet	Meets	
ISTE Standard 1.2Strategic Planning	0	0	22	
ISTE Standard 1.3Advocacy	0	0	22	
ISTE Standard 3.1Classroom Management & Collaborative Learning	0	0	22	
ISTE Standard 3.5Basic Troubleshooting	0	0	22	
ISTE Standard 3.6Selecting & Evaluating Digital Tools & Resources	3	0	19	
ISTE Standard 5.1Digital Equity	0	0	22	
ISTE Standard 5.2Safe, Healthy, Legal, and Ethical Use	0	0	22	
Description: Integrat Tech Across Curriculu (EDT - 6010 Section: 02O CRN 4094)				
Term: Term: Fall 2023 (202320) - Part of Term: 8E				
Instructor: Lastname Someprof (someProf.Lastname@cuchicago.edu)				
Standard	Approaching	Does Not Meet	Meets	
ISTE Standard 2.1Content Standards & Student Technology Standards	0	0	15	
ISTE Standard 2.2Research-Based Learner-Centered Strategies	0	2	13	
ISTE Standard 2.3Meaningful and Relevant Learning	0	0	15	
ISTE Standard 2.4Creativity, Higher-Order Thinking, and Mental Habits of Mind	0	1	14	
ISTE Standard 2.5Differentiation	0	0	15	
ISTE Standard 2.6Instructional Design Principles	1	1	13	
ISTE Standard 2.7 Assessment	1	0	14	
ISTE Standard 3.3Online and Blended Learning	0	0	15	
ISTE Standard 3.4Adaptive and Assistive Technology	0	0	15	
ISTE Standard 3.6 Selecting & Evaluating Digital Tools & Resources	1	0	14	
ISTE Standard 3.7Communication and Collaboration	0	0	15	
ISTE Standard 5.2 Safe, Healthy, Legal, and Ethical Use	0	0	15	
ISTE Standard 6.1Content, Pedagogical, and Technical Knowledge	1	0	14	
ISTE Standard 6.3Reflection	0	0	15	

THANK YOU!

Questions?