Teaching with Data-Driven Storytelling Helping Students Learn How to Work with Data GAMIN BARTLE, DIRECTOR OF INSTRUCTION & RESEARCH TECHNOLOGY

DAVID FREESTONE, ASSISTANT PROFESSOR, PSYCHOLOGY AND FACULTY LEADER, DIGITAL LIBERAL ARTS COLLABORATORY

JAMES MILES, DIRECTOR, DIGITAL LEARNING AND OUTREACH, COLLEGE OF HUMANITIES AND SOCIAL SCIENCES

EDGE.CON 2020

Presenters



Gamin Bartle, Director of Instruction & Research Technology

David Freestone, Assistant Professor, Psychology and Faculty Leader, Digital Liberal Arts Collaboratory



James Miles, Director, Digital Learning and Outreach, College of Humanities and Social Sciences

The problem: Our students are not future-ready

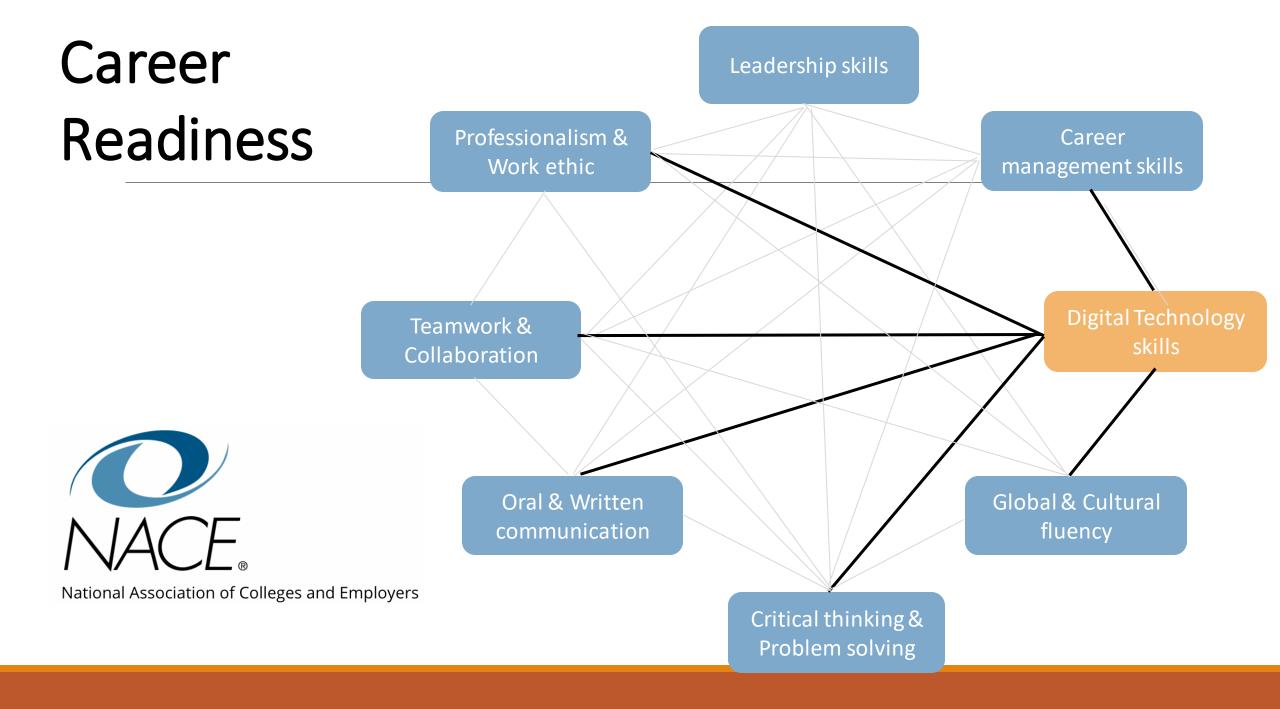


Percentage of students surveyed who felt digitally "well-prepared" or "very prepared" for entry-level positions Percentage of surveyed employers responded that students are digitally prepared for entry-level positions



Students Dread Data!





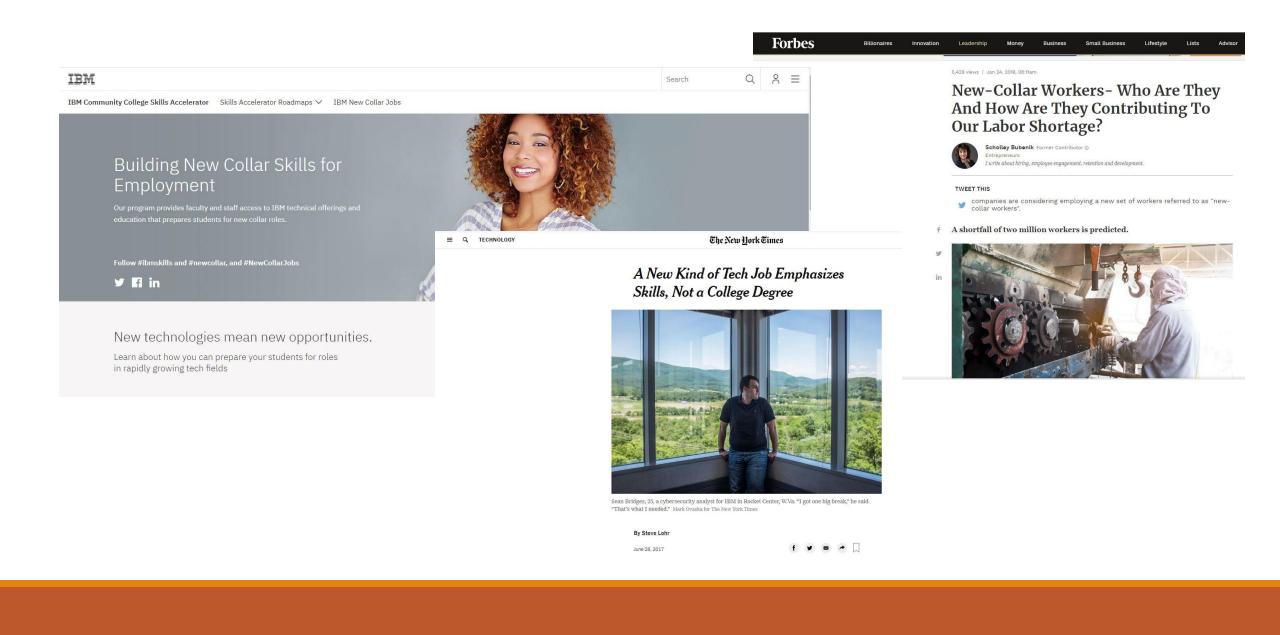


How colleges are preparing students for jobs that don't exist yet

Making Sen\$e Dec 6, 2018 3:58 PM EDT

https://www.pbs.org/newshour/economy/making-sense/how-colleges-are-preparing-students-for-jobs-that-dont-exist-yet

THE AGE OF THE NEW-COLLAR WORKER



Skills in Demand

Researchers at LinkedIn create an annual ranking of the skills most in demand. The most sought-after skills in the United States in 2016 were all tied to technology. In addition to those so-called hard skills, job retraining efforts often include the development of soft skills.

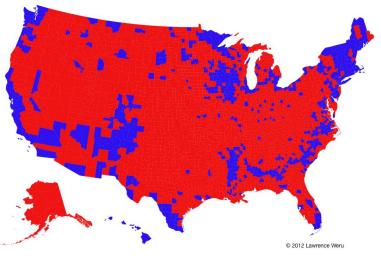
HARD SKILLS

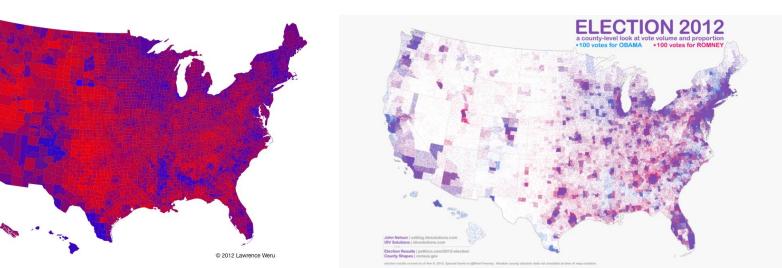
- •Cloud Computing Expertise
- Data Mining and Statistical Analysis
- •Smartphone App Development
- Data Storage Engineering and Management
- •User Interface Design
- •Network Security Expertise

SOFT SKILLS

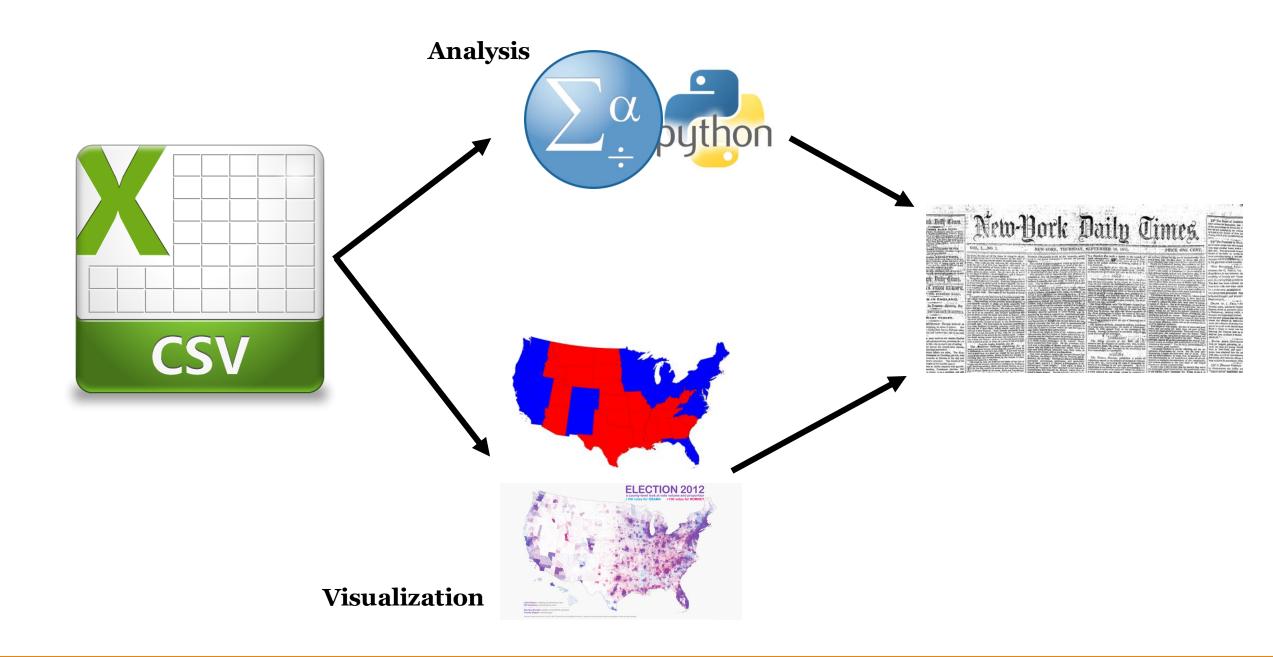
- Communication
- •Curiosity
- Adaptability
- •Teamwork
- •Empathy
- •Time Management
- •Open-Mindedness



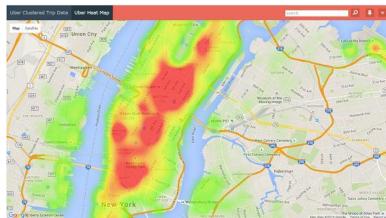




"Data is neither good nor bad but the problem make it so" - Shakespeare, probably.









My attempts (yours may be better)	Data Visualization	Data Analysis
Short (1 week)	Research Article Why Do People Tend to Infer "Is"? The Role of Biases in Ex (1) (2) (2) Christina M. Tworek ¹ and Andrei Cimpian ^{1,2} ¹ Department of Psychology, University of Illinois at Urbana-Champaign, a	planation Reprints and permissions suppublic on Junial/Semissions.rav DOI: 10.1177/0965076/0650875 pss.suppublic com SAGE
Medium (2-4 weeks)		
Long (4+ weeks)	Research Article Why Do People Tend to Infer "Ought" From "Is"? The Role of Biases in Explanation Image: Ima	PSYCHOLOGICAL SCIENCE Psychological Science 2016, Vol. 27(8) 1109-1122 © The Author(s) 2016 Reprints and permissions: sagepub com/yournal/Permissions: pss.sagepub com/ SAGE W York University



÷Q÷	Data Visualization	Data Analysis
Short (1 week)		
Medium (2-4 weeks)		
Long (4+ weeks)		



Percentage of William Paterson University students who are digitally "wellprepared" or "very prepared" for entry-level positions Percentage of employers who agree that William Paterson University students are digitally prepared for entrylevel positions



WPU Students, Future-ready!



