

HUDK 5053:

Feature

Engineering Studio

News



Game On: Teachers Should Continue to Gamify Classrooms

Use Google, Microsoft and others to bring an element of fun to learning.



What Can Machine Learning Really Predict in Education?



States Are Adopting More Computer Science Policies. Are High Schools Keeping Up?



18 SEP 2018 NEWS

FBI Warns Parents of Edtech Security Risk



Research Dispels Myth that Adult Students Don't Cheat in Online Classes

Events

Title	Date	Link
Changing the Airline Industry Beyond the Aircraft	5:00pm October 4	https://events.columbia.edu/cal/event/eventView.do?b=de&calPath=%2Fpublic%2Fcals%2FMainCal&guid=CAL-00bb9e24-655b8449-0165-5e0596df-00001917events@columbia.edu&recurrenceId=
Learning Analytics in Physical Spaces	12:00pm October 2	https://events.nyu.edu/#!/view/event/event_id/215979
Limits of Algorithmic Fairness	1:00pm October 5	https://events.columbia.edu/cal/event/eventView.do?b=de&calPath=%2Fpublic%2Fcals%2FMainCal&guid=CAL-00bb9e24-655b8449-0165-5e0596df-00001917events@columbia.edu&recurrenceId=
DSI Data Art Contest	Due October 5	https://events.columbia.edu/cal/event/eventView.do?b=de&calPath=%2Fpublic%2Fcals%2FMainCal&guid=CAL-00bb9e25-660aa178-0166-0c7f857a-00001aa1events@columbia.edu&recurrenceId=
Book Launch: Uberland	October 25	https://www.indiebound.org/book/9780520298576)
People centric approach to optimize Data Science, Commercial impact and Leadership	10:30am November 14	https://events.columbia.edu/cal/event/eventView.do?b=de&calPath=%2Fpublic%2Fcals%2FMainCal&guid=CAL-00bb9e24-655b8449-0165-5e0ea7e9-00001957events@columbia.edu&recurrenceId=
Big Data for Intelligence Symposium	Washington DC, October 16 - 17	http://bigdatasymposium.dsigroup.org/
Apple Picking!	October 7	
Coding tutorial	Friday Oct 5 1-3	A classroom, weekly
Social/Happy Hour	October 15 7-9	Hungarian pastry place

LinkedIn

- Open LinkedIn page on your laptop
- Turn your laptop around
- Take a piece of paper
- Find someone's profile
- Provide feedback (be nice!) on piece of paper
- Write the profile's name on back of paper
- Place paper face down next to profile

Problem Decomposition (factoring)

- Break a problem into parts that are easier to solve or engineer
- Domain/Functional
- How long does each thing take to run?
- Decompose into small tasks
- What is the slowest process?
- Write out program

Problem Decomposition (factoring)

- Break a problem into parts that are easier to solve or engineer (input/output)
- Domain/Functional
- How long does each thing take to run?
- Decompose into small tasks
- What is the slowest process?
- Write out program

Example 1

An edtech company wants to design a system that will personalize feedback for their student users. The program is an math quiz game in which students compete with one another answering questions to gain points. Come up with a deliverable solution, map the tasks and estimate how long it will take you to deliver it.

Example 2

A university wants to predict which students will enroll in the first week of semester and which will not show up at all. They have data on admissions website logins and whether or not students open emails. Come up with a deliverable solution, map the tasks and estimate how long it will take you to deliver it.