

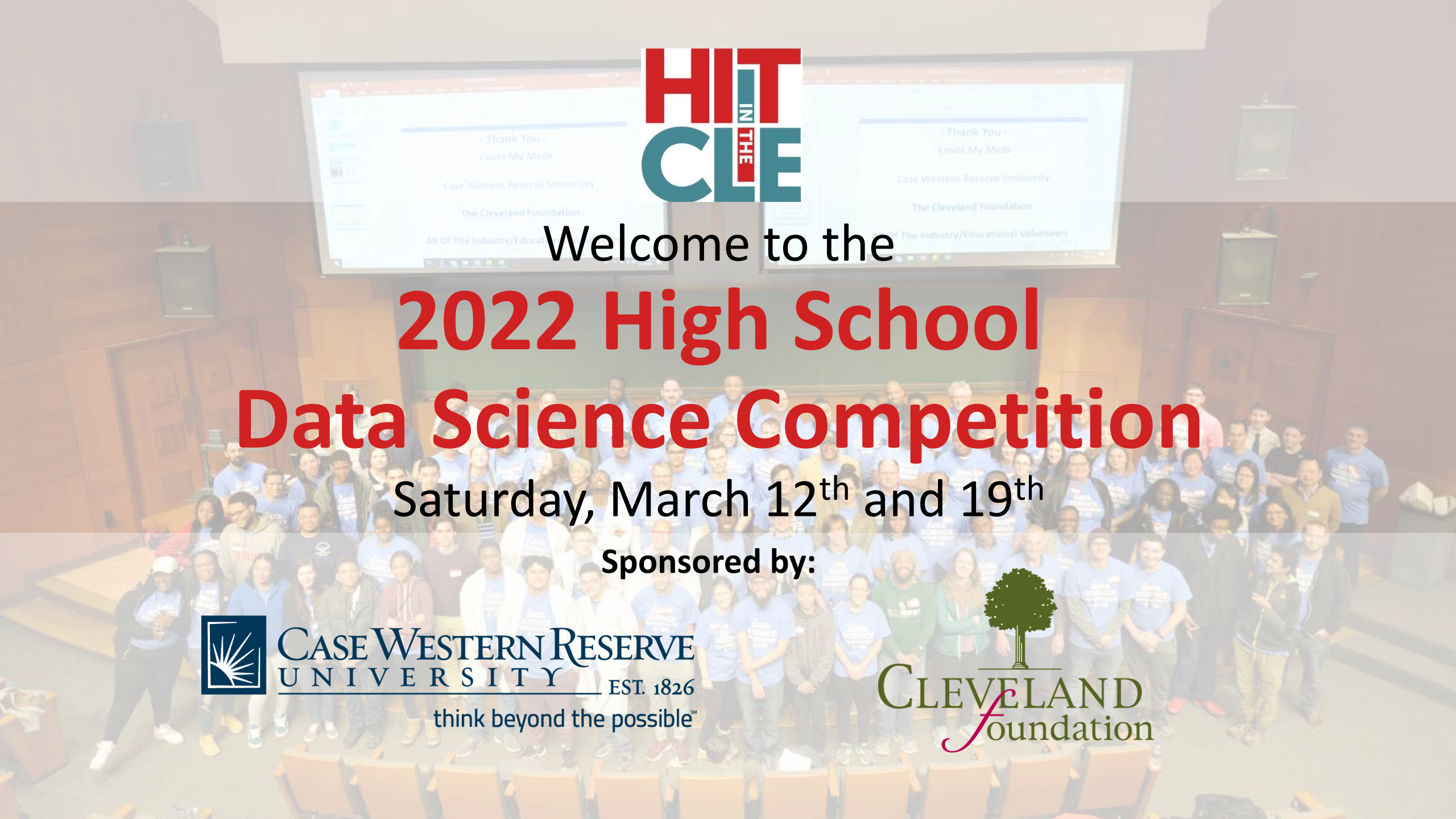


Welcome to the

2022 High School Data Science Competition

Saturday, March 12th and 19th

Sponsored by:



A group of diverse students in a classroom or study hall, gathered around a table with laptops and papers, looking at their work. The image is faded and serves as a background for the text.

Welcome

Thank You

- The Cleveland Foundation
- Case Western Reserve University
- All Of The Industry/Educational Volunteers

HIT (Health IT) in the CLE

- This initiative grew out of the need to provide additional talent in the form of software developer and data scientist for the Health IT cluster
- Data Science job growth in the next decade is expected to outstrip growth during the previous decade, creating 11.5M jobs by 2026, according to the U.S. Bureau of Labor Statistics
- Need to dramatically increase the pipeline
 - Computer Science Principles, AP Computer Science (A), Stats
 - Meet – Ups
 - Creation of Educational Pathways available at www.hitinthecle.com
 - Data Science Contest (Kaggle.com)
 - Community Classroom (Afterschool / weekend free coding classes)
 - Learn & Earn Apprenticeship Program

Data Scientist: A professional skilled in the art of problem solving. Data Scientists review large Data Sets, draw conclusions, and report their findings. They are good oral and visual communicators and can get their message across to a broad audience.

Now the moment that we
have all been waiting for....



The Data
sets are
Superheroes

Data Set Challenge: Develop a new super team of (5) heroes, regardless of (Marvel/DC) affiliation that will have the best potential to do well (\$) with 1. New movie release in the summer of 2022 and have the best opportunity for future movies (sequels)

This will be based on prior movie sales, ratings, individual superpower strengths and synergies, and other data found in the spreadsheets.

Data Science Competition Judging Criteria: Student teams will be judged on the following five criteria

- **Data Analysis** – Evidence that math and sound computational thought can support all conclusions that are reached in the final presentation.
- **Oral Presentation** – Logical flow and articulation of findings. The team should be able to speak clearly and persuasively to support their position. Have confidence in what you present!
- **Visual Presentation** – Charts, graphs and imagery are very important to the effectiveness of data science. Visual presentation will be a **KEY** judging element that teams will be rated on.
- **Creativity** – How creative were the teams in preparing their reports? Is there evidence of creative energy evident in the presentation. How does it inspire those who hear the presentation?
- **Teamwork** – How well does the team work together in reporting and making their case? Does the division of labor seem appropriate? Does the team adequately leverage the strengths of each of its members?

Few points to remember

- **Tools:** We will confine the analysis tool to **Excel or Google Sheets** only. These tools will be more than sufficient to perform due diligence and produce visual representation of the data
- **Coaches:** Are intended to be a source of guidance and technical assistance. Their job is not to provide the 'right' answer, but to mentor teams through the process
- **Final Presentations:** Should be developed in **Power Point or Google Slides** and should not exceed **10 min (7-8 presentation – 2 min Q&A)** in duration
- **Save your work:** Make sure that you save your work!
- **Work in general:** Its ok to work on the presentation between Saturdays, but do not let it get in the way of your other studies and obligations
- **Have fun:** Let your imagination and creativity drive you

Agenda 3/12

Time	Activity	Location
9:30 – 10:00 AM	Continental breakfast. Students pick up swag bags	Strosacker Auditorium
10:00 – 10:15 AM	Welcome – Contest instructions presented	Strosacker Auditorium
10:15 – 10:30 AM	Travel to individual team classrooms	Assigned Rooms
10:30 – 11:15 AM	Analysis of challenge statement and data set	Assigned Rooms
11:15 – 11:25 AM	Break	Assigned Rooms
11:25 – 11:50 AM	Analysis of challenge statement and data set cont'd	Assigned Rooms
11:50 – 12:00 PM	Travel to Strosacker Auditorium	Strosacker Auditorium
12:00 – 12:30 PM	Lunch	Strosacker Auditorium
12:30 – 12:40 PM	Travel to individual classrooms	Assigned Rooms
12:40 – 1:20 PM	Discuss elements of visual representation of data	Assigned Rooms
1:20 – 1:30 PM	Break	Assigned Room
1:30 – 2:00 PM	Resume work and adjourn at 2pm until next Saturday 3/19	Assigned Room

Room Assignments

Building /Room	Schools	Educators	Coach / Mentor
Sears 315	Ginn Academy HS	Mr. Holmes	Theo Fielding
Sears 323	Campus International	Mr. Dutton	Daniel Sprenger
Sears 325	Cleveland School of Science & Medicine 1	Mr. Krishnan / Rev. Gregg	Alex Rennick, Ken Huffman
Sears 326	Cleveland School of Science & Medicine 2	Mr. Krishnan / Rev. Gregg	Matt Pohlman
Sears 336	Lutheran HS East	Ms. Jabs	Tia Little
Sears 439	Richmond Heights HS	Mr. Patterson	Wes Mateo
Nord Hall 211	Garfield Heights HS	Mr. Lehmann	Alisa Kotliarova, Robert Wood
Nord Hall 212	Beaumont HS	Ms. Santo	Gaelle Nasr
Nord Hall 213	John Marshall School of IT	Ms. Kohn	Allison Botros
*	Maple Heights HS	Ms. Pekar	TBD

Sears 541, 542, Nord Hall 204, 206

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