

Get Involved with Bootstrap:Data Science!

Are you looking to get involved with Data Science classes in your community? Would you like to share your experience with middle- school or high-school students in your area? At Bootstrap, we are strong supporters of community building, and connecting students' experiences to real world applications of Computer Science. If you're interested in getting involved with a local Bootstrap:Data Science classroom, we would love to help make this happen.

What is Bootstrap?

At Bootstrap, based at Brown University, we craft research-based curricular modules for grades 6-12. Our materials reinforce core concepts from mainstream subjects like Algebra, Physics, Statistics, and more, enabling non-CS teachers to adopt our introductory materials while delivering rigorous and engaging computing content drawn from CS classes at major universities. We work with school districts across the country, reaching hundreds of teachers and thousands of students each year.



What is Bootstrap:Data Science?

"What factors make some people live longer than others? Are more expensive restaurants really better? Is a policy effective? How would you measure that?" Answering these questions involves analyzing data from large datasets, from sports stats to record sales to census information. In Bootstrap:Data Science, students form their own questions about the world around them, analyze data using multiple methods, and write a research paper about their findings. The curriculum covers functions, looping and iteration, data visualization, linear regression, and more. As part of our mission, Bootstrap believes in achieving equity in CS education through integration within existing courses. Bootstrap:Data Science allows Social Studies, Statistics, and Business teachers to integrate CS content into the school day, and help *all* their students learn to make inferences from data.



How can we get involved?

Here's how you can get involved with a Bootstrap:Data Science class in your community:

- Step 1: Contact us at contact@bootstrapworld.org and let us know the geographic area that you and your company are interested in.
- Step 2: If we can find available and interested teachers in the area, we will connect you.
- Step 3: You will work with the teacher to schedule a visit to a classroom, where you can:
 - Work directly with students, as they go through the curriculum.
 - Share your expertise from projects you've done, and hold a Q&A with the students.
 - Provide corporate swag - teachers *especially* appreciate paper, pencils and pens!
 - Participate - or even host! - an event at the end of the curriculum, as students present their findings to an audience. Give feedback to students and communicate the relevance of their skills/process in the Data Science industry.
- Your organization can also provide a financial contribution to Bootstrap, to keep the program running and continuing to develop high-quality curricular materials for teachers free of charge.