

EVERFI

Data Science



FREE DIGITAL LESSONS

THE LEARNING EXPERIENCE

students.

order thinking skills

Data science is a career field poised for massive growth. According to the <u>U.S. Bureau of Labor Statistics</u>, "Employment of computer and information research scientists is projected to grow 15 percent from 2019 to 2029, much faster than the average for all occupations. Job prospects are expected to be excellent." The labor market is hungry for skilled data wranglers, and pays them well, but few schools offer data-science classes.

Data Science and the additional data science exploration labs are designed to empower students with knowledge about the fundamentals of data science, its currency in the job market, and its applicability to everyday life.

Immersive, scenario-based narrative with diverse

Learning through problem solving to ignite higher

help teachers maximize their impact across all

Detailed score reports and offline extension activities

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Lesson 1: Data Science Basics

Grade Level: 9th - 12th

Total Lessons: 2 courses with a total of 6 lessons, 2.5 total hours

Curriculum Fit: Economics, Mathematics, Statistics, College & Career Prep

Standards Alignment: Common Core National Standards in Statistics & Probability

Languages: English, Spanish

UESSON 1 What is Data Science?

environments and characters

Collecting, Cleaning, and Validating Data

LESSON 2

Analyzing and Visualizing Data

LESSON 3

Reporting and Acting on Data

LESSON 4

Data Science is a blend of statistics and computer science, designed to help students build critical thinking skills to understand and use the "big data" that shapes modern life.

DATA SCIENCE FOUNDATIONS LESSONS

1. What is Data Science? - 30 min

Real-world problems a data scientist might need to solve, and the methods they use.

Mini-lab: Help Malachi boost his clothing company's sales.

2. Collecting, Cleaning, and Validating Data - 30 min

How data scientists ensure that their data is accurate and reliable. Mini-lab: Study CordiQ's new user data to gain insights about their customers.

3. Analyzing and Visualizing Data - 30 min

Use various displays and analytics tools to understand data sets.

Mini-lab: Assist Arun in performing statistical analysis on his data to optimize the performance of a soccer team.

4. Reporting and Acting on Data - 30 min

Summarizing data for different audiences in order to inform business decisions.

Mini-lab: Use probability and statistics to help PlanetPlan choose their next conservation project.

DATA SCIENCE EXPLORATION

The Data Science Exploration lessons will focus on data science careers within the financial industry. Lessons include:

1. Data Science in the Banking Industry - 8 min

Brief review of Data Science Foundations and an introduction to the use of data science in the financial industry.

2. Banking Fraud Simulation - 15 min

Interactive simulation allowing learners to practice and apply data science concepts to detect and prevent fraud in the banking industry.

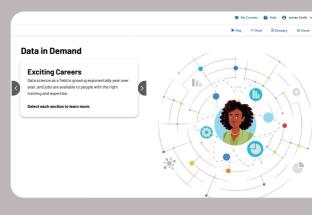
3. Financial Wellness Simulation - 15 min

Interactive lab allowing learners to practice and apply data science concepts to identify financial wellness solutions for common issues faced by young adults.

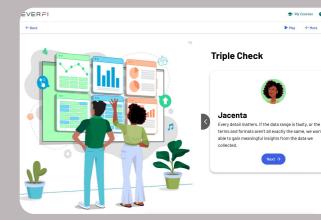
Ready to Start? Register now at EVERFI.COM/NewTeacher

LESSON ACTIVITIES:

Exploring Data Science Careers



Collecting, Cleaning & Validating Data





EVERPI

EVERFI, Inc. empowers educators to bring real-world learning into the classroom and equip students with the skills they need for success now and in the future. 3 of 5 U.S. school districts use EVERFI's digital resources to teach topics like financial literacy, social-emotional learning, career readiness, and prevention education.

EVERFI 2300 N Street NW Washington, DC 20037 (202) 625-0011 http://www.everfi.com/k-12