

Data Analytics Bootcamp



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About the Program

Take the next leap in your career by joining the Data Analytics Bootcamp, delivered in partnership with Caltech CTME. This bootcamp will help you master all the required skills starting from Excel and Tableau to advanced ones like SQL and Python. Learn data analytics from experienced instructors through live interactive sessions and practice the concepts learned in hands-on labs.

Designed for professionals, this Data Analytics bootcamp will fit perfectly into your schedule and help you build your skills through continuous learning sessions. With a mix of theory and practical sessions, this bootcamp will be the right choice to start your data analytics journey. Utilize your learnings from this bootcamp and work on a real-world project to showcase your technical expertise and grab your next career opportunity.

Key Features of the Program



Caltech Data Analytics Bootcamp Certificate



Online Convocation by Caltech CTME Program Director



Caltech CTME Circle Membership



Access to integrated Data Analytics Labs



Simplilearn's Career Assistance helps you get noticed by top hiring companies



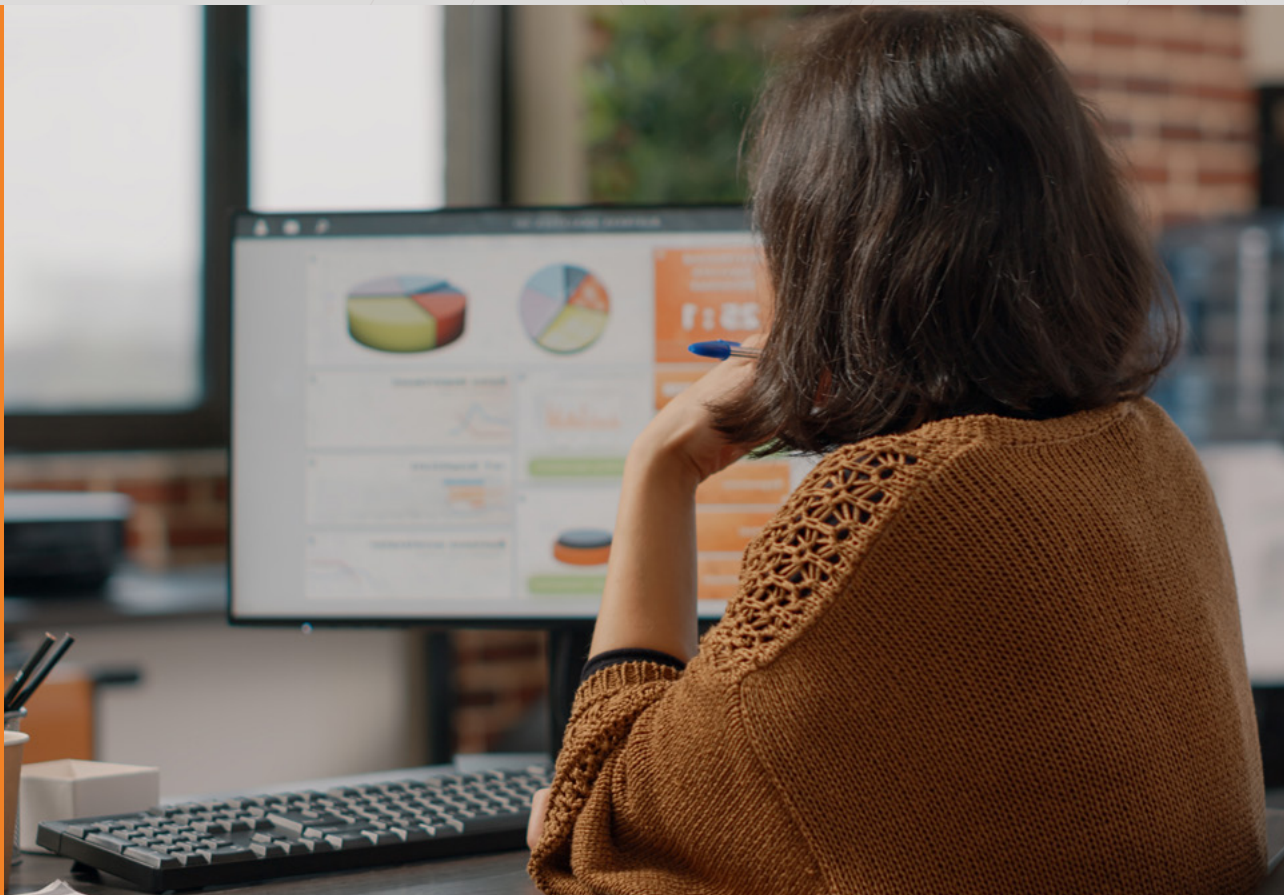
8X higher interaction in live online classes by industry experts



About Caltech CTME

Founded in 1891, Caltech is a world-renowned science and engineering institute that marshals some of the world's brightest minds and most innovative tools to address fundamental scientific questions and pressing societal challenges. Caltech prizes excellence and ambition. The contributions of Caltech's faculty and alumni have earned national and international recognition, including 38 Nobel Prizes and nearly 60 National Medals of Science. The Institute manages the Jet Propulsion Laboratory (JPL) for NASA.

CTME is embedded in Caltech's Division of Engineering and Applied Science. Caltech CTME has a unique role to play in applying the capabilities of scientists and engineers to the challenges of today's technology-driven businesses. Caltech CTME applies executive education and professional development directly to real-world problems. Caltech CTME experts teach the tools and perspectives that elevate careers and help companies achieve their goals.



Eligibility Criteria

For admission to this Data Analytics Bootcamp, candidates who meet the criteria below are encouraged to apply:

- ✓ Are not required to have prior work experience
- ✓ Be at least 18 years old and have a high school diploma or equivalent
- ✓ No prior coding experience or technical know-how required



Application Process

Candidates can apply to the Caltech Data Analytics bootcamp in 3 simple steps:

STEP 1

Submit an Application

Complete the application and include a brief statement of purpose. The latter informs our admissions counselors why you're interested and whether you're qualified for the bootcamp.

STEP 2

Application Review

A panel of admissions counselors will review your application and statement of purpose to determine whether you qualify for acceptance.

STEP 3

Admission

An offer of admission will be made to qualified candidates. You can accept this offer by paying the program fee.

Qualified candidates can accept the offer by paying the program fee.



Talk to an Admissions Counselor

We have a team of dedicated admissions counselors here to help guide you in the application process and related matters. They are available to

- ✓ Address questions related to the application
- ✓ Assist with financial aid (if required)
- ✓ Help you better understand the program and answer other questions

Who is this Bootcamp Ideal for?



This bootcamp caters to working professionals from a variety of industries and backgrounds. Aspiring professionals of any educational background with an analytical bent of mind are most suited to pursue this Data Analytics bootcamp.

We welcome professionals keen to develop expertise in Data Analytics, with the objective of:

- ✓ Enhancing effectiveness in their current role
- ✓ Transitioning to Data Analytics roles in their organization
- ✓ Seeking to advance their career in the Data Analytics industry
- ✓ Giving shape to entrepreneurial aspirations

Program Outcomes



Become a power Excel user by learning how to use advanced features like functions, pivot tables, and complex formulas



Get comfortable creating data-driven presentations using advanced chart design and summarizing with visuals



Design, learn and apply the Structured Query Language (SQL) for database definition and manipulation



Learn core Python scripting elements such as variables and flow control structures so you can manipulate and analyze your data



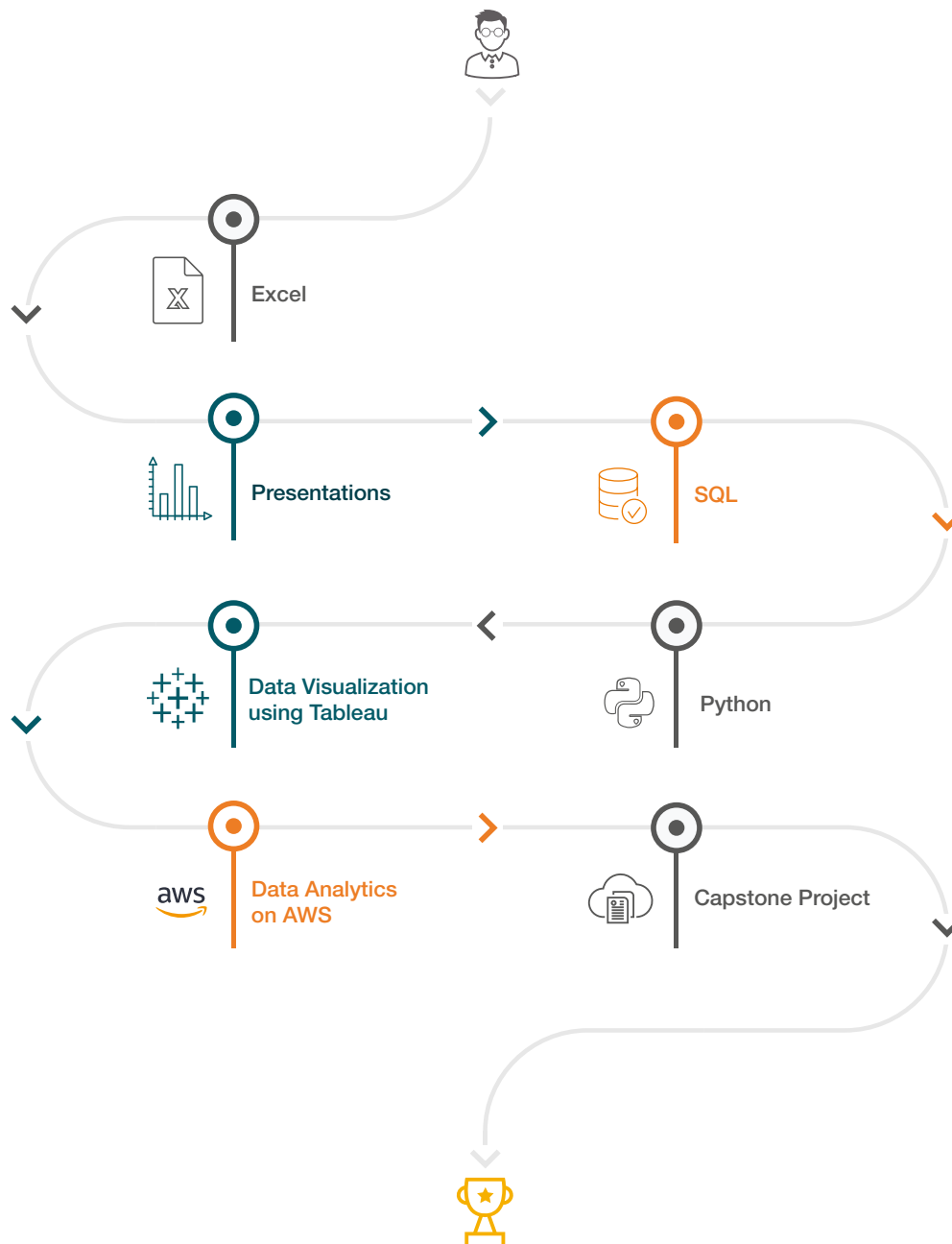
Take your data visualization skills to the next level by learning how to use data visualization tools and build a dashboard



Learn how to use the most popular analytics tools on Amazon Web Services

Learning Path

Core Learning Path



STEP

1

Excel

Excel is the fundamental tool used in many organizations to do a wide variety of tasks starting from data management to data analysis. Learn all the basic aspects of Excel to start your journey with and then move to the advanced level by learning complex formulas and pivot tables.

Key Learning Objective

- ✓ Become a power Excel user by learning how to use advanced features

Topics Covered

- ✓ Functions
- ✓ Pivot tables
- ✓ Complex formulas

STEP

2

Presentations

Learn how to narrate business stories efficiently using visualization and create a data-driven presentation.

Key Learning Objective

- ✓ Become comfortable creating data-driven presentations

Topics Covered

- ✓ Data-driven storytelling
- ✓ Summarizing with visuals
- ✓ Advanced chart design

STEP

3

SQL

This course will establish your mastery of SQL and help you learn all the essential functionalities of SQL to become an expert in data analytics. Learn how to write queries and statements using the SQL language.

Key Learning Objective

- ✓ Design, learn, and apply Structured Query Language (SQL) for database definition and manipulation

Topics Covered

- ✓ SQL fundamentals
- ✓ SQL queries
- ✓ SQL statements

STEP

4

Python

Python is a critical programming language used in a wide variety of applications. Learning it will help you grow in your career. Learn the fundamentals of Python programming to perform data-related activities like data manipulation and data analysis.

Key Learning Objective

- ✓ Learn basic Python skills so you can manipulate and analyze data

Topics Covered

- ✓ Python fundamentals
- ✓ Python syntax
- ✓ Core scripting elements such as variables and flow control structures

STEP

5

Data Visualization using Tableau

This Tableau course helps you understand how to build visualizations, organize data, and design charts and dashboards to empower more meaningful business decisions. You'll be exposed to the concepts of Data Visualization, different combo charts and stories; working with filters, parameters, and sets; and building interactive dashboards.

Key Learning Objective

- ✓ Take your data visualization skills to the next level by learning how to use Tableau

Topics Covered

- ✓ Dashboard building
- ✓ Analytical storyboards
- ✓ Data visualization tools

STEP

6

Data Analytics on AWS

While all industries shift to the cloud, it is critical to build data analytics skills on a cloud platform. In this module, you will learn how to perform data analytics on the Amazon Web Services cloud platform.

Key Learning Objective

- ✓ Learn how to use the most popular analytics tools on Amazon Web Services

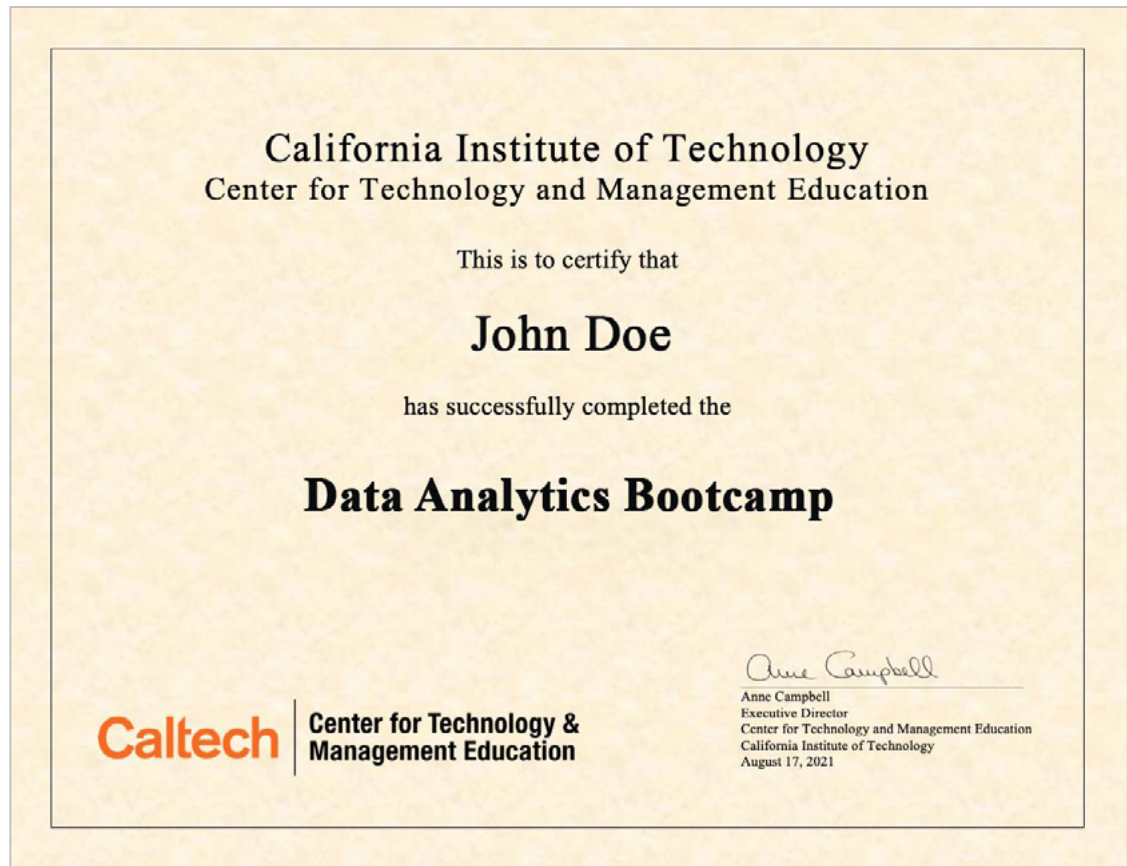
Topics Covered

- ✓ AWS data analytics services
- ✓ AWS data collection
- ✓ AWS databases and visualizations

Tools Covered



Certificates



Upon successful completion of the Caltech Data Analytics bootcamp, you will receive a certificate of completion from Caltech CTME. This certificate will testify to your skills as a Data Analytics expert.



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Disclaimer: All programs are offered on a non-credit basis and are not transferable to a degree.