Google

Google Advanced Data Analytics Professional Certificate

Learn in-demand skills like statistical analysis, Python, regression models, and machine learning in less than 6 months.

Instructor: Google Career Certificates

Top Instructor

Enrolled

Already enrolled
Financial aid
available

27,365 already enrolled

Included with **Coursera PLUS** • Learn more

4.7★ (637 reviews)

Advanced level

Recommended experience ●

6 months at 10 hours a week

Flexible schedule

Learn at your own pace

View all courses

What you'll learn

✓ Explore the roles of data professionals within an organization

✓ Create data visualizations and apply statistical methods to investigate data

✓ Build regression and machine learning models to analyze and interpret data

✓ Communicate insights from data analysis to stakeholders

Skills you'll gain

Data Science | Regression Models | Predictive Modelling | Exploratory Data Analysis (EDA) | Statistical Analysis | Machine Learning | Python Programming | Data Analysis | Jupyter Notebook | Tableau Software

View all skills

Details to know

in

Shareable certificate
Add to your LinkedIn profile

🔔

Recently updated!
April 2023

💬

English
Subtitles: English

See how employees at top companies are mastering in-demand skills

Learn more about Coursera for Business

75% of certificate graduates report positive career outcome[1]

Advance your career with in-demand skills
Receive professional-level training from Google
Demonstrate your technical proficiency
Earn an employer-recognized certificate from Google

Qualify for in-demand job titles: senior data analyst, junior data scientist, data science analyst
Get exclusive access to career resources upon completion

Resume review
Improve your resume and LinkedIn with personalized feedback

Interview prep   Enrolled
Practice your skills with interactive tools and mock interviews

Career support
Plan your career move with Coursera's job search guide
Connect with 150+ U.S. hiring organizations in Google's Employer Consortium

Google salesforce Adobe T Mobile WELLS FARGO

[2]Positive career outcome (e.g., new job, promotion, or raise) within six months of completion. Based on program graduate survey, United States 2022.

Professional Certificate - 7 course series

Get professional training designed by Google and take the next step in your career with advanced data analytics skills. **There are over 144,000 open jobs in advanced data analytics and the median salary for entry-level roles is $118,000.**[1]
Advanced data professionals are responsible for collecting, analyzing, and interpreting extremely large amounts of data. These jobs

Read more

Foundations of Data Science
Course 1•22 hours•4.7★(554 ratings)

Course details ⌄

What you'll learn
✓Understand common careers and industries that use advanced data analytics
✓Investigate the impact data analysis can have on decision-making
✓Explain how data professionals preserve data privacy and ethics
✓Develop a project plan considering roles and responsibilities of team members

Skills you'll gain
Sharing Insights With Stakeholders | Effective Written Communication | Asking Effective Questions | Cross-Functional Team Dynamics | Project Management

Get Started with Python
Course 2•30 hours•4.7★(227 ratings)

Course details ⌄

What you'll learn
✓Explain how Python is used by data professionals
✓Explore basic Python building blocks, including syntax and semantics
✓Understand loops, control statements, and string manipulation
✓Use data structures to store and organize data

Skills you'll gain
Using Comments to Enhance Code Readability | Python Programming | Jupyter Notebook | Data Visualization (DataViz) | Coding

Go Beyond the Numbers: Translate Data into Insights
Course 3•33 hours•4.7★(104 ratings)

Course details ⌄

What you'll learn
✓Apply the exploratory data analysis (EDA) process
✓Explore the benefits of structuring and cleaning data
✓Investigate raw data using Python
✓Create data visualizations using Tableau

Skills you'll gain
Python Programming | Tableau Software | Data Visualization (DataViz) | Effective Communication | Exploratory Data Analysis

The Power of Statistics
Course 4•38 hours•4.8★(78 ratings)

Course details ⌄

What you'll learn
✓Explore and summarize a dataset
✓Use probability distributions to model data
✓Conduct a hypothesis test to identify insights about data
✓Perform statistical analyses using Python

Skills you'll gain
Statistical Analysis | Python Programming | Effective Communication | Statistical Hypothesis Testing | Probability Distribution

Regression Analysis: Simplify Complex Data Relationships
Course 5•32 hours•4.8★(60 ratings)

Course details ⌄

What you'll learn
✓Investigate relationships in datasets
✓Identify regression model assumptions
✓Perform linear and logistic regression using Python
✓Practice model evaluation and interpretation

Skills you'll gain

Predictive Modelling Statistical Analysis Python Programming Effective Communication regression modeling

The Nuts and Bolts of Machine Learning

Course 6•38 hours•4.8★(44 ratings)

Course details ⌄

What you'll learn

✓Identify characteristics of the different types of machine learning

✓Prepare data for machine learning models

✓Build and evaluate supervised and unsupervised learning models using Python

✓Demonstrate proper model and metric selection for a machine learning algorithm

Skills you'll gain

Predictive Modelling Machine Learning Python Programming Stack Overflow Effective Communication

Google Advanced Data Analytics Capstone

Course 7•9 hours•4.9★(82 ratings)

Course details ⌄

What you'll learn

✓Examine data to identify patterns and trends

✓Build models using machine learning techniques

✓Create data visualizations

✓Explore career resources

Skills you'll gain

Executive Summaries Machine Learning Python Programming Technical Interview Preparation Data Analysis

Instructor

Top Instructor

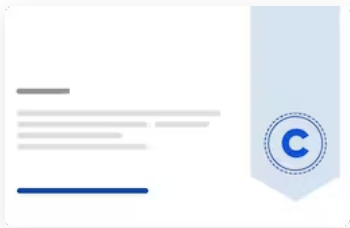Google Career Certificates

Google

286 Courses•6,802,604 learners

Offered by

Google

Learn more

Earn a career certificate

Add this credential to your LinkedIn profile, resume, or CV

Share it on social media and in your performance review

Why people choose Coursera for their career

Felipe M.
Learner since 2018

"To be able to take courses at my own pace and rhythm has been an amazing experience. I can learn whenever it fits my schedule and mood."

Jennifer J.
Learner since 2020

"I directly applied the concepts and skills I learned from my courses to an exciting new project at work."

Larry W.
Learner since 2021

"When I need courses on topics that my university doesn't offer, Coursera is one of the best places to go."

Chaitanya A.

"Learning isn't just about being better at your job: it's so much more than that. Coursera allows me to learn without limits."

coursera PLUS

Open new doors with Coursera Plus

Unlimited access to 7,000+ world-class courses, hands-on projects, and
job-ready certificate programs - all included in your subscription

Learn more →

Advance your career with an online degree

Earn a degree from world-class universities - 100% online

Explore degrees →

Join over 3,400 global companies that choose Coursera for Business

Upskill your employees to excel in the digital economy

Learn more →

Frequently asked questions

> ## Is this course really 100% online? Do I need to attend any classes in person?

This course is completely online, so there's no need to show up to a classroom in person. You can access videos, readings, hands-on activities, and assessments anytime and anywhere via the internet, on a computer, or mobile device.

> ## What is advanced data analytics ?

Advanced data analytics (also known as data science) uses math and statistics, programming, artificial intelligence (AI), and machine learning to uncover insights within an organization's data. These insights can be used to guide the organization's decision making and strategic planning.

> ## What kind of companies hire advanced data professionals?

Organizations of all kinds need data professionals to investigate and find stories in data. Advanced data analytics and data science jobs exist in varied industries, from technology to finance to entertainment.

> ## How much does this certificate cost?

In the U.S. and Canada, Coursera charges $49 per month after the initial 7-day free trial period. The Google Advanced Data Analytics Certificate can be completed in less than 6 months at under 10 hours per week of part-time study, so most learners can complete the certificate for less than $300 USD. In other countries where Google Career Certificates are available, your cost may be lower.

> ## Is this program offered in other languages?

This certificate is currently available globally in English. We are working on adding more languages soon. Some tools - like the employer consortium - are only available in the United States at this time. Please check back here for updates.

> ## What tools and platforms are taught in the curriculum?

You will practice using tools and platforms including Jupyter Notebook, Kaggle, Python, and Tableau.

> ## What background knowledge is necessary?

This program assumes prior knowledge of foundational analytical principles, skills, and tools. These include data types, data strategy, data integrity, data cleaning, data aggregation, data analysis, and best practices when information-sharing. It also requires an understanding of spreadsheets, databases and structured query language, programming concepts, data visualization, and dashboards. This advanced certificate builds on your data analytics skills and experience to help you take your career to the next level. It's designed for people working in the field of data analytics or for those with foundational skills from the Google Data Analytics Certificate ↗ or a similar program.

> ## Do I need to take the courses in a specific order?

We highly recommend taking the seven courses in this certificate program in the order presented, as the content builds on information from earlier courses.

> ## Which jobs does this program prepare for?

After graduating from this certificate program, you will be prepared for job titles like senior data analyst, data analyst II, associate data scientist, junior data scientist, data analytics scientist, data science analyst, and data analytics consultant.
These professionals collect, analyze, and interpret large amounts of data within a variety of different organizations. Their responsibilities require advanced analytical skills such as data manipulation, experimental design, predictive modeling, and machine learning.
Senior data analysts and data scientists are responsible for collecting, analyzing, and interpreting large amounts of data within a variety of different organizations. These roles require more advanced analytical skills such as data manipulation, experimental design, predictive modeling, and machine learning.

> ## What will I be able to do upon completing the professional certificate?

Google Career Certificates are designed to prepare you for an entry-level role in job fields like data analytics, digital marketing & e-commerce, IT support, project management, and UX design. Advanced Google Career Certificates go deeper in these fields, build on your foundational skills, and are designed to take your career to the next level.
Upon completion of an advanced Google Career Certificate, like this one, certificate graduates in the U.S. will have the option to share their information with top U.S. employers that are hiring professionals, like Deloitte, Target, Verizon, and of course, Google. Employer consortiums are currently available in the U.S., Canada, India, Singapore, Indonesia and are coming to more countries soon. The employers included will vary by country.

> ## What resources will be available to help with the job search process?

In addition to expert-led training and hands-on projects designed to prepare you for a job, you'll get access to an interview practice tool ↗, mock interviews and resume building workshops, career coaching sessions and more. You'll also be able to connect with over 150 U.S. employers who are searching for candidates who have completed a Google Career Certificate.

> ## Why did Google create this program?

Google had long faced an issue that many other companies also contend with: We had open IT support roles, but not enough qualified candidates to fill them. So we built and tested a training program to provide pathways to jobs in technical support at Google for people with no college degree or experience. In 2018, Google launched the IT Support Certificate so that this training could be available to everyone. Since

then, thousands of people have completed the program. In the United States, 75% of certificate graduates report a positive career outcome (e.g., new job, promotion, or raise) within six months of completion.[1]

When we saw the positive impact this program was having on people all over the world, we expanded into additional fast-growing, high-paying career fields: cybersecurity, data analytics, digital marketing & e-commerce, project management and UX design. Built and taught by Google, these certificates prepare people from all backgrounds for jobs in fields with great demand for qualified candidates. No degree or previous experience is required. Graduates get the chance to connect directly with over 150 U.S. employers who are accepting Google Career Certificates for open jobs.

[1]Based on program graduate survey, United States, 2022.

[1]Based on program graduate survey responses, United States 2021

⟩ What is the refund policy?

If you subscribed, you get a 7-day free trial during which you can cancel at no penalty. After that, we don't give refunds, but you can cancel your subscription at any time. See our full refund policy⤤.

⟩ Can I just enroll in a single course?

Yes! To get started, click the course card that interests you and enroll. You can enroll and complete the course to earn a shareable certificate, or you can audit it to view the course materials for free. When you subscribe to a course that is part of a Certificate, you're automatically subscribed to the full Certificate. Visit your learner dashboard to track your progress.

ⓘ More questions
Visit the learner help center

Coursera	**Community**	**More**	**Mobile App**
About	Learners	Press	
What We Offer	Partners	Investors	
Leadership	Beta Testers	Terms	
Careers	Translators	Privacy	
Catalog	Blog	Help	
Coursera Plus	Tech Blog	Accessibility	
Professional Certificates	Teaching Center	Contact	
MasterTrack® Certificates		Articles	
Degrees		Directory	
For Enterprise		Affiliates	
For Government		Modern Slavery Statement	
For Campus		Do Not Sell/Share	
Become a Partner			
Coronavirus Response			