Celebrating
12
YEARS
OF
EXCELLENCE

CR🔥MA
CAMPUS

GOOGLE PROFESSIONAL DATA ENGINEER CERTIFICATION TRAINING

Chase your dream companies

500K+
Satisfied Students

100K+
Online Students

300+
Trainers

300K+
Placements

200+
Global Certifications

150+
Companies

1.2 Million
Learners

1 -1 Personlized
Mentorship

60% **Average**
Salary Hike

www.cromacampus.com

About **PROGRAM**

Learning Format
Online / Offline

Trainer
Industry Professionals

Career Services
By Croma Campus

Our course content has been specifically designed to turn you into a skilled professional in this industry. As a part of your certification training, you will receive enough study material and recorded video sessions that will help you cover all the latest trends and features in this course. The training session will comprise important sections, features, advantages, and scope of the technology in the coming years. Moreover, our qualified trainers will help you imbibe all the required skills, and information in a much better manner to help you in you becoming an expert in this technology. Post the completion of your course, you will receive a training certificate recognized world-wide.

What Make Us **Trick**

Career-oriented Sessions
Attend 25+ career-oriented sessions by industry mentors and prepare your career trajectory

Profile Building
Craft a Cloud Computing resume and LinkedIn profile and make an impression on top employers

Mock Interview Preparation
Prepare with mock interviews including most asked questions by top employers

1:1 Mentoring Sessions
Get 1:1 guidance at every step in your career transition to Cloud Computing

Dedicated Job Portal Access
Get exclusive access to 200 job postings per month on Intellipaat's job portal

Minimum 3 guaranteed interviews
Get job interviews with 400+ hiring partners including promising startups and top MNCs

Program **FEATURES**

Key **Highlights**

- ✓ Instructor - Led Training
- ✓ Project & Exercises
- ✓ Flexible Schedule
- ✓ Mentor Support
- ✓ 1 - 1 with industry mentors

- ✓ Self- paced Videos
- ✓ Job Assistance
- ✓ Life Time Free Upgrade
- ✓ Guaranteed Interviews
- ✓ Training Certification

Who Should Enroll in **this Program?**

Any technical degree or equivalents such as B.tech, M.tech, a degree in engineering, bachelor/master's in computer science, and basic programming knowledge.

This program caters to a wide audience, from those who are hoping to enter the industry

- ✓ Fresh graduates who are intent on taking the plunge into the job market
- ✓ Developers who are working in one of the functional roles of front-end or back
- ✓ development and want to shift to full stack development
- ✓ Test engineers, system engineers, and others who want to make a career shift to

Module 1 : Data Processing and Data Storage Fundamentals in GCP

- Data processing Fundamentals
  - Data Processing Concepts
  - Data Processing Pipelines
- Data Storage Fundamentals
  - About GCP
  - Data Storage in GCP
  - Working with Data
  - Cloud Storage
  - Data Transfer Services
  - Cloud Fire Store
  - Cloud Spanner
  - Cloud Memory Store
  - Different Memory options
- Selecting the best memory storage
  - Compare storage options
  - Mapping storage systems to business requirements
  - Data modeling
  - Trade-offs involving latency, throughput, transactions
  - Distributed systems
  - Schema design

Module 2 : Designing Data pipelines

- Data publishing and visualization
- Online (interactive) vs. batch predictions
- Batch and streaming data (e.g., Cloud Dataflow, Cloud Dataproc, Apache Spark and Hadoop ecosystem, Cloud Pub/Sub, Apache Kafka)
- Big Data Ecosystem
  - MapReduce
  - Hadoop & HDFS
  - Apache Pig
  - Apache Spark
  - Apache Kafka
- Real-time Messaging with Pub/Sub
  - Pub/sub basics

- pub/Sub Terminologies
- Advanced Pub/Sub Concepts
- Working with Pub/Sub
- Cloud Data Flow Pipelining
  - Dataproc Basics
  - Working with Dataproc
  - Advanced Dataproc
- NoSQL Data with Cloud Big Table
  - Big Table Concepts
  - Big Table Architecture
  - Big Table Data Model
  - Big Table Schema Design
  - Big Table Advanced Concepts
- Data Analytics using BigQuery
  - BigQuery Basics
  - Using BigQuery
  - Partitioning and Clustering
  - Best Practices
  - Securing BigQuery
  - BigQuery Monitoring and Logging
  - Machine Learning with BigQuery ML
  - Working with BigQuery
  - Advanced BigQuery Concepts
- Data Exploration with Cloud Datalab
  - Datalab Concepts
  - Working with Datalab
- Visualization with Cloud Data Studio
  - Reporting & Business intelligence
  - Data Distribution
  - Introduction to Cloud Data Studio
  - Charts and Filters
- Job automation and orchestration (e.g., Cloud Composer)
  - Orchestration with Cloud Composer
  - Cloud Composer Overview
  - Cloud Composer Architecture
  - Working with Cloud Composer
  - Advanced Cloud Composer Concepts

Module 3 : Design a Data Processing Solution

- Steps for Designing
  - Choice of infrastructure
  - System availability and fault tolerance
  - Use of distributed systems
  - Capacity planning
  - Hybrid cloud and edge computing
  - Architecture options (e.g., message brokers, message queues, middle ware, service-oriented architecture, serverless functions)
  - At least once, in-order, and exactly once, etc., event processing
- Migrating data warehousing and data processing
  - Awareness of current state and how to migrate a design to a future state
  - Migrating from on-premises to cloud (Data Transfer Service, Transfer Appliance, Cloud Networking)
  - Validating a migration

Module 4 : Building and operationalizing data processing systems

- Building and operationalizing Storage Solutions
  - Cloud Managed Services
  - Effectives Use of Managed Services
  - Storage Cost and performance
  - Lifecycle Management of Data
- Building and operationalizing Pipelines
  - Data cleansing
  - Batch and streaming
  - Transformation
  - Data acquisition and import
  - Integrating with new data sources
- Building and operationalizing processing infrastructure
  - Provisioning resources
  - Monitoring pipelines
  - Adjusting pipelines
  - Testing and quality control

Module 5 : Operationalizing machine learning models

- Introduction to Machine Learning

- Machine Learning Introduction
- Machine Learning Basics
- Machine Learning Types and Models
- Overfitting
- Hyperparameters
- Feature Engineering
- Machine Learning with TesnorFlow
  - Deep Learning with TensorFlow
  - Introduction to Artificial Neural Networks
  - Neural Network Architectures
  - Building a Neural Network
- Leveraging pre-built ML models as a service. Considerations include:
  - ML APIs (e.g., Vision API, Speech API)
  - Customizing ML APIs (e.g., AutoML Vision, Auto ML text)
  - Conversational experiences (e.g., Dialogflow)
- Deploying an ML pipeline
  - Ingesting appropriate data
  - Retraining of machine learning models (Cloud Machine Learning Engine, BigQuery ML, Kubeflow, Spark ML)
  - Continuous evaluation
- Choosing the appropriate training and serving infrastructure
  - Distributed vs. single machine
  - Use of edge compute
  - Hardware accelerators (e.g., GPU, TPU)
- Measuring, monitoring, and troubleshooting machine learning models
  - Machine learning terminology (e.g., features, labels, models, regression, classification, recommendation, supervised and unsupervised learning, evaluation metrics)
  - Impact of dependencies of machine learning models
  - Common sources of error (e.g., assumptions about data)

Module 6 : Ensuring Solution Quality

- Designing for security and compliance
  - Identity and access management (e.g., Cloud IAM)
  - Data security (encryption, key management)
  - Ensuring privacy (e.g., Data Loss Prevention API)

- Legal compliance (e.g., Health Insurance Portability and Accountability Act (HIPAA), Children's Online Privacy Protection Act (COPPA), FedRAMP, General Data Protection Regulation (GDPR))
- Ensuring scalability and efficiency
  - Building and running test suites
  - Pipeline monitoring (e.g., Stack Driver)
  - Assessing, troubleshooting, and improving data representations and data processing infrastructure
  - Resizing and autoscaling resources
- Ensuring reliability and fidelity
  - Performing data preparation and quality control (e.g., Cloud Dataprep)
  - Verification and monitoring
  - Planning, executing, and stress testing data recovery (fault tolerance, rerunning failed jobs, performing retrospective re-analysis)
  - Choosing between ACID, idempotent, eventually consistent requirements
- Ensuring flexibility and portability
  - Mapping to current and future business requirements
  - Designing for data and application portability (e.g., multi-cloud, data residency requirements)
  - Data staging, catalog, and discovery

e-Learning through **LMS**

Learning **Management System**

Our LMS (LearnPitch) is for the administration, documentation, tracking, reporting, automation, and delivery of educational courses, training programs, or learning and development programs.

Our LMS has been designed to identify training and learning gaps, using analytical data and reporting to keep you up with the class activities.

Key Features **Learning Management System**

Live Sessions with Class recordings

Get study material with Assignments.

Track your curriculum covered.

Track your class wise attendance

Share your feedback for Trainer & Training

Get your Training Certificate from LMS

Training Certification

Earn Your Certificate

Your certificate and skills are vital to the extent of jump-starting your career and giving you a chance to compete in a global space.

Croma Campus is **Nasscom Certified**

Croma Campus is now

NASSCOM®

Certified Member

CERTIFIED
MEMBER

NASSCOM®

CERTIFICATE

OF MEMBERSHIP

CromaCampus Training & Development Private Limited

is a member of NASSCOM

Membership ID : NSCM/2023/33/7617

Valid Till : 31-March-2024

Debjani Ghosh
Debjani Ghosh
President, NASSCOM

www.cromacampus.com

Croma Campus! **Reviews**

"The most rewarding part of my experience has been achieving a prestigious certification in the subject that I love. Moreover, the training offered out by the specialists are of world-class and prepares out the students for corporate world. For me Croma Campus means a lot."

" *By The* *Students* *For The* *Students* „

Your Success Is **Our Story**

Bharat
" I am fully satisfied with the excellent training services received by the expert staff at Croma Campus. I want to thank Croma Campus for providing me with the most innovative and affordable training services for learning all the software testing procedures and guidelines. „

Ankit
" It was a lifetime experience for me to get trained by IT Experts of Croma Campus. What I liked most about the training was the consistent high-quality education, which was friendly and co-active. The placement department was also proactive, they keep me updated regarding new job opportunities and provide the grooming session to crack the interview. At last, I would like to thank all faculty members of Croma Campus for their immense help and support. „
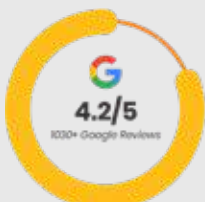
Umesh
" Without any second thought, I will give Croma Campus 10/10. Their placement department is highly proactive. I remember they started scheduling interviews for me from the very next day when I told them my course has been completed. These people are doing a phenomenal job and I highly recommend Croma Campus to everyone. „

Shams Khan
" Croma Campus is doing a phenomenal job in the IT training industry. The reason why I decided to join their training program was that they provide quality training at very a nominal price. Plus, the online training mode was also a factor due to which I decided to join the training program of Croma Campus as I didn't want to attend physical classes. „

G 4.2/5
1030+ Google Reviews

4.8/5
1224+ Sulekha Reviews

4.6/5
1034+ Urbanpro Reviews

Jd 4.3/5
1294+ Just Dial Reviews

f 4.5/5
1290+ Facebook Reviews

Meet Our Team

Sales Team

Our Sales team is highly passionate, emphatic, positive attitude, great listening skills, ability to deliver quick solutions, and they are multitasker too. Our team always remains up-to-date about all the latest technologies and market trends. With effective communication skills, they always work to deliver the right information to customers when it is needed.

Product Team

Our product team is highly functional and collaborative working together to achieve the common outcome of designing exceptional digital experiences. Each of our members is a contributor to help us achieve success in long-run. Sitting at the high-end of technology and innovation, team helps to deliver high-end customer experiences and always comes out with a big idea as a game-changing plan.

Marketing Team

Our Marketing team works as gladiators and helps us to achieve business success in all possible ways. They are included in almost everything either it is building a brand, creating brand awareness, promoting products or services, delivering trailblazing customer experiences or increasing engagement at public forums. They are the true backbone of the Company.

Content Team

Our content team is responsible for ideation, creation, optimization, and distribution of content throughout the company. The team always starts its work with a strategy, how to create high-quality contents, and how to promote or share the content. Our in-house content team help us to produce all types of contents either they are educational content pieces, marketing content, SEO content, or any other forms too.

Customer Access Team

This is the team that has actually been taken up us from reactive state to a pro-active state. The team utilizes high-valued solutions to satisfy customers in all possible ways. It is truly said that no company can succeed if your customers are not satisfied. And our customer success team is dedicatedly working to keep all the customers satisfied and we always consider our customer feedback on priority.

HR Team

Our HR team is committed to provide high-end solutions to employees as they require. Our HR team has the right skills and knowledge to make sure that the HR department can always be legally and strategically successful. They know how to keep employees motivated all the time with the best HR policies and fun activities too from time to time.
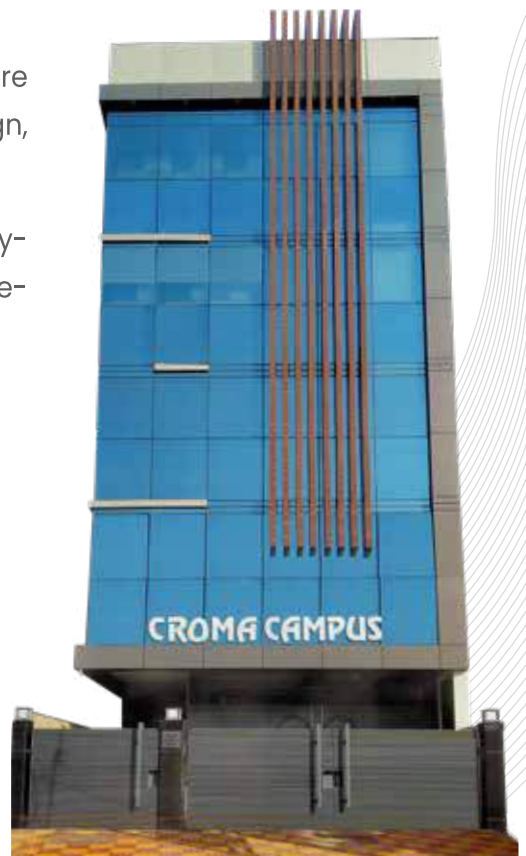
Glimpse Of **Our Office**

Look **Who We are**

Our office's infrastructure comprises all the necessary software and network resources that are required to deliver IT & Design, Human Resources, Digital Marketing, and training services.

We are well-equipped with bright designed work bays for employees and managers having separate cabins with spacious cafeteria and training classrooms.

About **Croma Campus**

> ## Our Mission is to Build Nation through Education & Beyond Limitation.

Croma Campus Training & Development Private Limited is an education platform providing rigorous industry-relevant programs designed and delivered in collaboration with world-class faculty, industry & Infrastructure. In the past 12 years we have trained 18000+ candidates and out of which we are able to place 12000+ professionals in various industries successfully.

We Are Affiliated With Different Partners

ISO CERTIFIED COMPANY ISO 9001:2015

MSME

N·S·D·C National Skill Development Corporation — Transforming the skill landscape

GST

startupindia

Ministry Of Corporate Affairs Government of India

PMKVY

follow us on:

cromacampus/facebook

cromacampus/pinterest

cromacampus/instagram

cromacampus/linkedin

cromacampus/twitter

cromacampus/youtube

REACH US:

Croma Campus Training & Development (P) Ltd.

G-21, Block G, Sector 3, Noida, Uttar Pradesh - 201301

+91-9711-5269-42   +91-0120-4155255

helpdesk@cromacampus.com | www.cromacampus.com