



POST GRADUATE  
PROGRAM IN

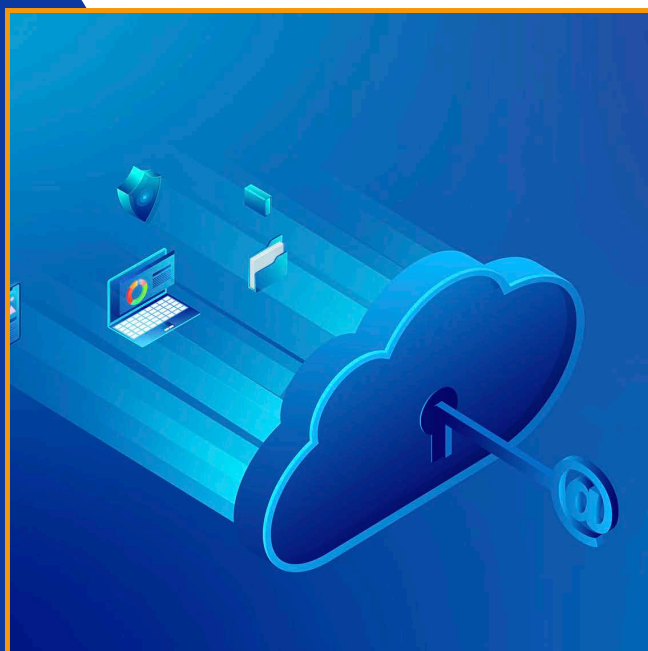
# CLOUD COMPUTING

Accelerate Your Career With India's Most Comprehensive  
Cloud Computing Program

**PGP-CC | 8 Months Online Program**

# PG PROGRAM IN CLOUD COMPUTING

Great Learning offers PG Program in Cloud Computing (PGP-CC) in collaboration with Great Lakes Executive Learning. This program focuses on empowering professionals to fast-track their careers in Cloud Computing. In this 8-months intensive experiential learning program, learners get access to 100+ hours of online video content, [12 labs](#), and live weekend mentor sessions to reinforce their learnings with an industry perspective. The program is carefully designed in collaboration with industry leaders to help you become a cross-platform and balanced cloud architect. Through a combination of expert lectures, demos, hands-on labs, and projects, you will build out solutions that the industry expects of you as a cloud professional.



## Program Rating

**4.7/5\***



\*1037 participants

# THE FUTURE IS CLOUD



**\$ 500  
BILLION**

is the estimated public  
cloud spending by  
2023\*

\*CenturyLink and Statista



**81%**

of companies have a  
multi-cloud strategy  
today\*

\*Gartner



**83%**

is the estimated growth  
predicted in the cloud  
infrastructure market in  
2021\*

\*Forrester Research

## OUR CREDENTIALS



**20+**

Top Ranked  
Programs



**1 MILLION+**

Successful Learners



**500+**

Hiring Partners



**2500+**

Faculty & Industry  
Experts



**160+**

Countries

# IF YOU CHOOSE THIS PROGRAM, YOU WILL:

## 01

Become a cloud professional with the ability to work on platform-agnostic and cloud-based solutions for organizations.

## 02

Become proficient in AWS and Microsoft Azure with an option to learn Google Cloud.

## 03

Be able to work with Containers, Microservices, DevOps, Cloud Design Patterns, and Openstack.

## 04

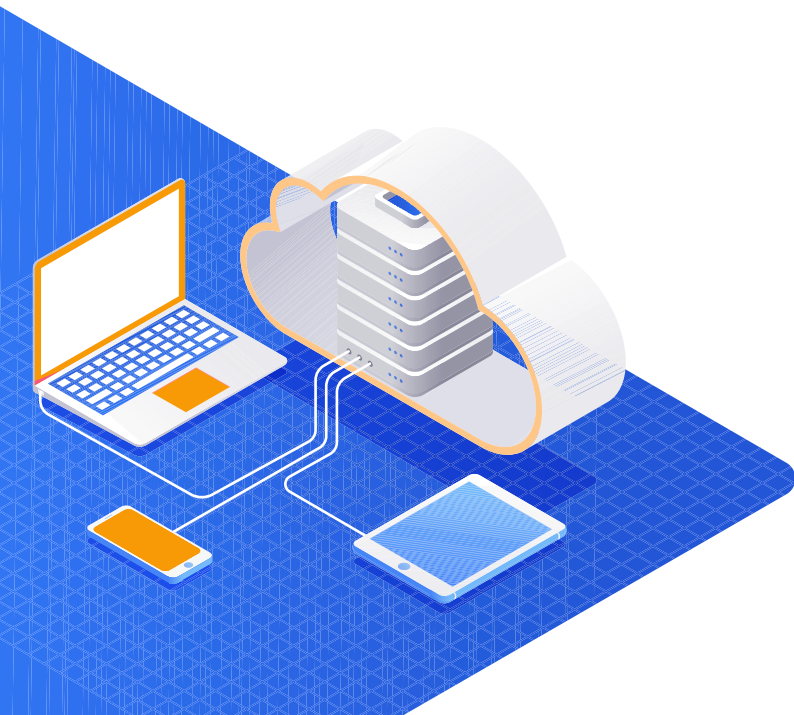
Get a better understanding of Cloud Financial, Adoption & Migration Patterns and learn to make trade-off decisions for your customers.

## 05

Understand Big Data and Architectural Styles to realize the value of data insights for your organization and customers.

## 06

Get access to an optional Developer Track to hone your skills (Only for developers with work experience).



# WHAT MAKES THE CLOUD COMPUTING PROGRAM UNIQUE?



## Hands-on Labs & Projects

Solve and build more than 15 use cases through labs and projects across various cloud platforms.

## Capstone Project

Specialize in cloud concepts & domains by working on a set of use cases inspired by real-life industry problems.



## Career Assistance

Get dedicated career assistance, such as resume building, interview preparation and personalized career guidance.

## Lecture Notes

Apart from the videos, demos, and mentoring, you'll also, access course notes for a quick overview of concepts before your interviews.



## Access to Learning Content Beyond Graduation

Continue learning even after completion of the program.

## Comprehensive Curriculum

The program covers a diverse yet relevant set of concepts and technologies that prepare you well beyond just industry certifications.



## Certificate

Get a certificate from Great Lakes Institute, one of the Top-10 Management Institutes in India.

# CERTIFICATE

Upon successful completion of the program, you will receive a PG certificate from Great Lakes Executive Learning.



Certificate Image is for representational purposes only.  
The actual certificate image may vary.

# PROGRAM CURRICULUM

## FOUNDATIONS

### Cloud Primer (Preparatory Work Course)

- Basic Python for Cloud

### Cloud Foundations

- Introduction to Virtualization (VM's and Containers)
- Service Delivery and Deployment Models
- Cloud Attributes and Services Taxonomy
- Introduction to Infrastructure Automation
- Key Aspects of IaaS, PaaS and SaaS

 1 Quiz

 1 Project

### Containers

- Docker
- Elastic Container Service (ECS)

 1 Quiz

 1 Project

### Microservices

- Expectations and Characteristics
- Failures, Modelling challenges, Load balancing
- The 12-factor app
- Architecture and Design Patterns
- Anti Patterns
- Event Driven Architecture
- Security Enforcement
- Migrating a Monolith

 4 Quizzes

### Big Data Management and Analytics

- Concepts of NoSQL
- NoSQL Databases (Cassandra and DynamoDB)
- Partitioner, Replication, Snitch
- Query Driven Design and Distributed Development
- Amazon EMR, Hadoop and Hive

 4 Quizzes

 1 Project

### Cloud Security and Migration

- Security Services (Trusted Advisor, Data encryption, Amazon Inspector, AWS Config, Guard Duty and Macie)
- Identity and Access Control
- Application User Management (AWS Cognito)
- Cloud Migration Strategies
- API based Integration

 4 Quizzes

 1 Project

### Private Cloud (Self-Paced Course)

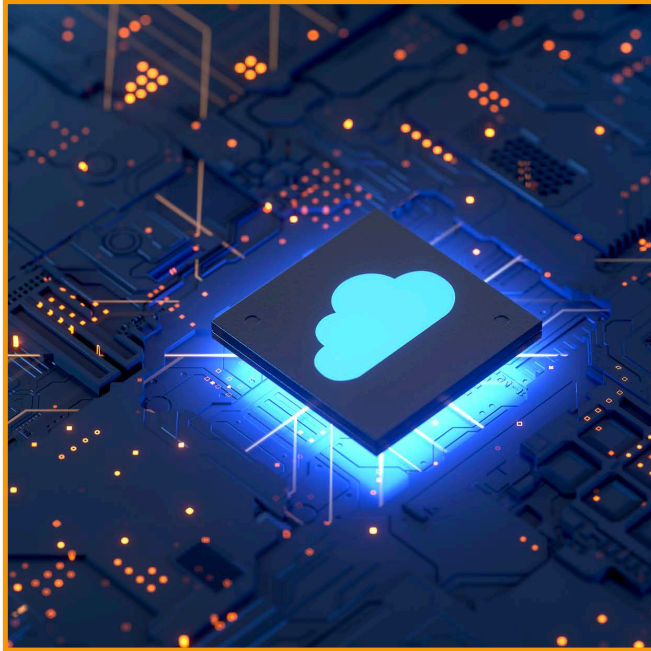
- OpenStack Essentials

### Capstone Project

- A set of projects that allows you to apply your learnings to industry inspired use cases and add it to your portfolio for potential employers to see as a tangible body of work.



# AWS SPECIALIZATION



## Cloud Computing on AWS

- Compute, Load Balancing, Autoscaling
- Storage, Replication and Life Cycle Management
- AWS Organization and Identity
- Networking and Data migration

 3 Quizzes  1 Project

## Managed Services on AWS

- Databases (RDS, DynamoDB)
- Web Application Firewall
- SNS, SQS, Cloudwatch
- Athena, Quicksight and Kinesis
- Serverless (Lambda)
- AWS Cognitive Services (Rekognition, Comprehend and Polly)

 3 Quizzes  1 Project

## Cloud Native DevOps

- Terraform
- Deployment Pipeline (AWS Code Commit, AWS Code Deploy and AWS Code Pipeline)
- CloudFormation

 1 Quiz

## Enterprise Cloud Solutions (Self-Paced Course)

- Setting up a Cloud based Development Environment
- Data Streaming and Data Analytics on Cloud
- Setting up Kinesis Data Stream
- Platform as a Service - Elastic Beanstalk

## Solutions Architect - Official AWS Educate Learning Pathway

- Networking
- Managed Services Overview
- Security

## Application Developer - Official AWS Educate Learning Pathway

- Architecture and DevOps
- Platforms
- Data and Databases
- Web, Mobile and Gaming



# M I C R O S O F T   A Z U R E

## Azure Infrastructure

- Introduction to Azure & its services
  - Azure Virtual Machines (Networking components, Configuring high availability, Scale sets, Autoscaling, etc.)
- Storage (Blob Storage, Azure Files)
- Virtual Networking (Networking Options, VNet Peering, VNet to VNet setup)
- Active Directory (Basics on Azure AD & AD connect)
- Azure Resource Manager (Building ARM template, Powershell, CLI, Cloud shell usage)
- Azure Cost Management (Alerts, Budgeting Pricing Calculator)

 1 Quiz 1 Project

## Azure Security Solutions

- Load Balancing (Azure Load Balancer, Application Gateway, WAF, Azure Traffic Manager)
- Network Security (Network Security Groups, Azure Bastion, Firewall)
- Security & Governance Solutions

 1 Quiz

## Azure Solutions for Apps

- Azure App Services
- API Management
- Container based Applications
- Messaging & Event Based Services
- Azure DevOps
- Monitoring

 1 Quiz

## Azure Data Platforms

- Cosmos DB
- SQL Database
- Data Services Intro

 1 Quiz

# G O O G L E   C L O U D P L A T F O R M ( S E L F - P A C E D )

## Google Cloud Platform

- Regions, Resources and Services Overview
- Google Compute Engine, Instance Groups, Load Balancing and Autoscaling
- Storage and Networking
- GCloud and Cloud SDK
- Google App Engine
- Google Kubernetes Engine

\*Terms & Conditions Apply.

You will also get additional resources containing material which can help you excel the AWS and Azure certifications.

# SAMPLE HANDS-ON PROJECTS



## 01

### Cloud-Based File Share and Sync Solution

Implemented a cloud-based scalable and secure file share and sync solution using AWS services. The solution can be easily scaled up to run in your data center or on a public cloud, with its servers, storage etc. completely managed and controlled by your IT team in accordance with a company's governance and security requirements.

**Concepts:** VPC, EC2, Security Group, Internet Gateway, NAT instance, LAMP stack, S3 and MYSQL.

## 02

### Building an Automated Business Process Using Managed Services on a Public Cloud

In the connected world, it is imperative that the organizations be interlinked with the customers and vendors. This process has been very sluggish, manual, batch-based, and prone to failures. Such integration design has led to impaired decision-making and delays in the detection of fraudulent actions. This project created an automated, event-based real-time process using managed cloud services that do not have these limitations.

**Concepts:** Amazon S3, SNS, Athena and DynamoDB.

## 03

### Deploying Web App Using ECS

In the last decade, small and large enterprises have invested heavily in developing bespoke applications. Since these applications have been built and enhanced over a while, they are complex and any form of re-engineering to convert it to smaller, modular, and independently hosted services are difficult. Managed Container Services from cloud providers allow predictable and reproducible packaging of such apps. This project moved & deployed a classical web app to AWS ECS containers.

**Concepts:** Docker, ECS, Load Balancer and Fargate.

## 04

### Building Scalable and Resilient Applications

Creating web applications that are both resilient and scalable is an essential part of any application architecture. A well-designed application should scale seamlessly as demand increases and decreases, and be resilient enough to withstand the loss of one or more compute resources.

**Concepts:** Instance Group, Autoscaler, HTTP Load balancer, Autohealing and Google App Engine.

## 05

### Scalable Geo-Distributed Event Registration App on Microsoft Azure

The application is a multi-tenant web application that can onboard thousands of corporates and millions of end-users. The app is globally available with automatic geo-failover, as any downtime may cost revenue loss to business as end-users will not be able to register. Email notifications are sent to end-users after successful registration with relevant event information.

**Concepts:** AppServer Instances, Azure Active Directory, Functions and CDN.

## 06

### Build a Document Management System on Cloud

Enterprise information is primarily captured in either a structured or unstructured manner. Databases have been very efficient in handling structured data and allowing the business users flexibility to access the raw data. However, when it comes to handling unstructured data storage, management will have less than the desired outcome if the system used is optimized for structured data. We created a process and a document management system that allows the enterprise to organize, catalogue and fetch data in an intuitive manner.

**Concepts:** Lambda, Elasticsearch, Containers, Python and Java Codes, S3 and DynamoDB.

## 07

### CloudFormation | AWS CLI

Creating multiple containers and custom docker image

**Concepts:** AWS CLI, Cloud Formation, Cloud Formation Template and Cloud Formation Stack.

## 08

### Cassandra Setup and Masterless Concepts

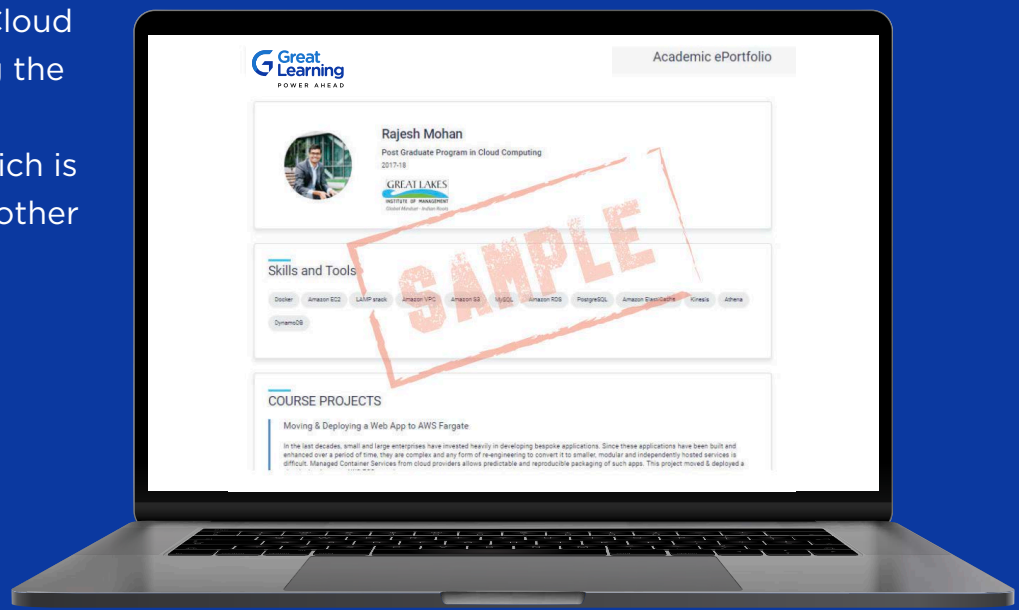
Install multi-node Cassandra cluster, induce failure, create keyspace/table and access from the client.

**Concepts:** Cassandra and BigData.

\*Sample Projects

# E-PORTFOLIO

Build your credibility as a Cloud professional by showcasing the projects you've worked on through this e-portfolio which is shareable on LinkedIn and other social channels.



# PROGRAM FACULTY & INDUSTRY MENTORS



**Nirmallya M**

Former Chief Architect



**Mohit Batra**

Founder, Crystal Talks



**Raghu Raman**

Big Data and Cloud Expert



**Sachin Agarwal**

Software Engineer



**Bhuvaneswari Subramani**

AWS Community Hero, Director



**Atul Sharma**

Global Solution Architect



**Note:** This is a partial, indicative list of faculty and mentors. Your learning sessions draw from a diverse pool of faculty and mentors and may vary from session to session.

## STUDENTS SPEAK



**Anurag Shukla**

Cloud and DevOps Engineer

**Deloitte.**

Overall, it was a great learning experience to work on project 2 which helped me to understand the structure of coding and gain hands-on experience in implementations of the concepts.

The Course is splendid. I learned more than I expected. The mentoring sessions are really helpful. Very satisfied with the curriculum relevance, quality of faculty, assignments, and industry sessions.



**Rajesh Kumar**

Cloud Infra Architect



**Akshay Sharma**

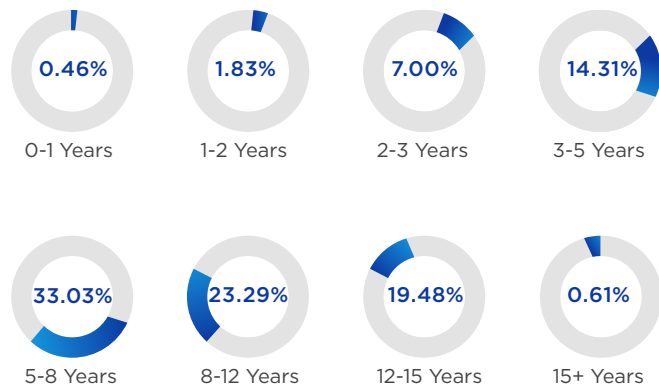
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**FORTINET.**

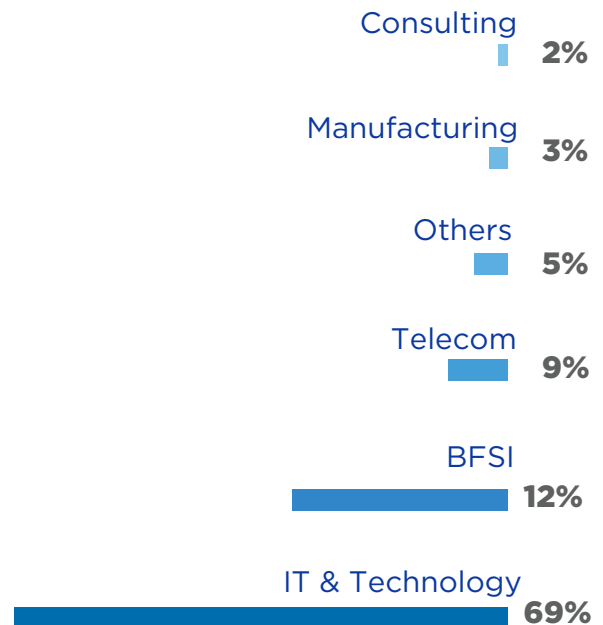
Great Learning, being such a major player in academics, has designed this program quite splendidly. The faculty, especially Mr. Nirmallya and Mr. Raghu, are top-notch with their deep subject knowledge and presentation skills. They made the concepts very clear and easy to learn.

# STUDENT PROFILE

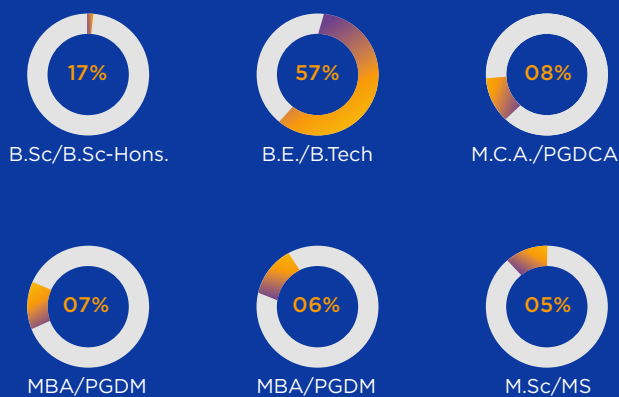
## WORK EXPERIENCE DISTRIBUTION



## INDUSTRY DIVERSITY



## EDUCATIONAL BACKGROUND



## EDUCATIONAL QUALIFICATION

With an average work experience of ~11 years, the program participants have excellent diversity across work experience groups and industries.

While the majority of the candidates are from IT & Technology companies, there is a good representation of the BFSI. (MBA, MCA, M.Tech, etc.)

Program participants are working in a variety of job roles such as Head of Engineering, Lead Application Developer, Sr. Software Engineers, etc.



# LIST OF EMPLOYERS

Our learners come from a variety of top Indian and global organizations.  
Some of these are:



## ADMISSION DETAILS

The admission process is conducted on a rolling basis and will be closed once the requisite number of candidates are enrolled in the program.

- Fill an online application form
- Eligible applicants will receive a screening call
- Review of call
- Announcement of results/release of admission offer letter

## ELIGIBILITY

The applicants should have a minimum of 3 years of experience in a technology role which includes exposure to development, testing/quality assurance, maintenance, database administration, and technology infrastructure management.

## F E E S

**₹125,000 + GST**

Learning is now made easy with financing options at a 0% interest rate, 0% processing fee and longer tenure of upto 60 months. You will have to pay the **Admission Fees of ₹20,000 + GST**, before the start of your course.

## P A Y M E N T P L A N

Loan Tenure	Processing Fee	Interest Rate	EMI (Incl. GST)
3 Months	0%	0%	₹41,300
6 Months	0%	0%	₹20,650
12 Months	2%	0%	₹10,325
18 Months	3%	0%	₹6,883
24 Months	3%	6.50%	₹5,832
36 Months	3%	6.50%	₹4,115
48 Months	3%	7.20%	₹3,324
60 Months	3%	7.60%	₹2,851

For information on flexi-payments and scholarship options, please contact our admissions office at **08047188439**

**Start learning at ₹2,851 per month.**

Choose the loan tenure as per your convenience.

## PROGRAM PARTNERS



Great Lakes is India's leading business school with campuses in Chennai and Gurgaon. Led by exceptional faculty and steered by an outstanding advisory council, Great Lakes is ranked amongst India's top 10 business schools and is ranked as the best in the country when it comes to learning analytics. A certification from Great Lakes ensures you get the industry credibility and acceptance as you look to build your career.



Great Learning is one of India's leading ed-tech companies for professional and higher education. It offers comprehensive, industry-relevant programs in Software Engineering, Business Management, Business Analytics, Data Science, Machine Learning, Artificial Intelligence, Cloud Computing, Cyber Security, Digital Marketing, Design Thinking, and more.

Great Learning's programs are developed in collaboration with the world's foremost academic institutions like Stanford University, The University of Texas at Austin, MIT Professional Education, Northwestern University, Indian Institute of Technology, Madras (IIT Madras), International Institute of Information Technology Hyderabad (IIIT Hyderabad), People's Education Society University, Bengaluru (PES University, Bengaluru) and Great Lakes Institute of Management and are constantly reimaged and revamped to address the dynamic needs of the industry. Great Learning is the only ed-tech company to provide these programs in a blended mode, classroom mode and in a purely online mode, relying on its vast network of expert mentors and highly qualified faculty to deliver an unmatched learning experience for learners in India and the world over. Having impacted 1 million+ learners from over 160+ countries, Great Learning is on a mission to enable transformative learning and career success in the digital economy for professionals and students across the globe.

READY TO ADVANCE  
YOUR CAREER?

**APPLY NOW**

Speak to a Program Advisor

**080 4718 9251**

or

Email us

**cloudcomputing@greatlearning.in**

Visit Our Website

**www.greatlearning.in**

