

# Cloud Computing Engineers

**Domain Specialization**

**Capstone Project Certificate from IBM**



# Cloud Computing Domain

DOMAIN  
SPECIALIZATION  
ELECTIVE

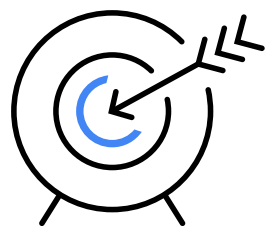
- ✓ Cloud computing, which provides on-demand resources via the Internet, accelerates innovation, supports flexibility, and leverages economies of scale.
- ✓ Cloud services you use are only paid for when you need them, helping you save expenses, better manage your infrastructure, and expand as your company grows.
- ✓ More and more gadgets are connecting to the Internet through the Internet of Things (IoT). There are thought to be approximately 50 million IoT-connected devices by 2030, and it is estimated that this will result in a substantial quantity of data. Most of this data will be kept on the cloud, where it will be evaluated.



Learn Advance  
Tools & Technique



Crack coding interviews  
of product-based  
companies



Work with real time  
projects through-  
out the elective

# Cloud Computing Domain

ELECTIVE  
DETAIL

*The fields of data science and artificial intelligence use a wide range of approaches, including statistical analysis, modelling, machine learning, and data mining, to help us forecast the future.*



## Who should join?

- 1+ Years of Experience in IoT or Embedded domain
- 1+ Years of Experience in Automotive industry
- Someone who is interested in switching their domain to Automotive, IoT or Embedded Domain
- Managers and leaders associated with cloud computing who want to incorporate future proof and data-driven newfangled practices into the existing business operations.



## Why domain specialization?

- Data science skill efficacy is all about using your domain-specific knowledge in a balanced way using data-driven methods.
- As a result, if you don't have domain expertise, your data science abilities are useless.
- Even so, these are the main reasons why experienced workers seeking career changes are in greater demand.

### Course Pre - requisite:

Professionals having 1+ year of experience in Cloud Computing domain. Or professionals interested in learning about the newest technology, data science and artificial intelligence techniques that drives strategic development.

**NO background in programming or statistics required.**

# Tools & Modules

## TERM 1 & 2



**Python**



**Statistics**



**Machine Learning**



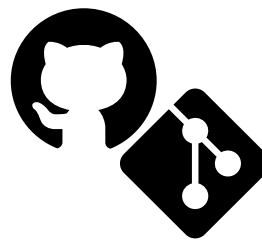
**Deep Learning (Tensorflow)**



**Time Series Analysis & Forecasting**



**Natural Language Processing**



**Git & GitHub**



**R Programming**

## TERM 3 & 4



**Reinforcement Learning**



**Open CV**



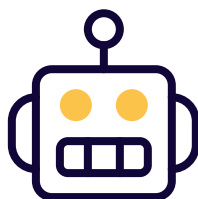
**Pytorch**



**Keras**



**Google Cloud**



**Advance AI**



**Project Expertise**



**Elective - Cloud Computing**

# Program RoadMap

**100% Interview Guarantee in  
Product based MNCs  
Capstone Project Certification from IBM**

**Work on Real Time  
Projects and **Domain  
Specific** Capstone  
project**

**Job Preparation  
(Resume Build- Up,  
Mock Interview, Job  
Referrals)**

**Analyze your knowledge and  
interest towards any 2 domain  
from **Domain Electives****

**Complete General Program (Term 1 to 4)  
Core + Advance Modules & Tools**



# What will you learn :

## In Cloud Computing Domain



Computing services such as servers, databases, data analytics, software, and artificial intelligence are accessible through the cloud.

It enables companies to use the most effective data centers at a lower price.

This assists them in the process of getting rid of their data science obstacles.

Incorporating data science and cloud computing methods may assist improve revenue.

### In this module, you will learn that how Data Science can -

- Contribute to cost savings.
- Improved and optimized Real-Time Data Management.
- Faster and Efficient collaboration.
- Data Loss Prevention and Enhanced Data Security.

## Module 1 - Introduction to Cloud Computing

- Why Cloud and Evolution of Cloud, Service Models, Abstraction Levels, Cloud Attributes
- Deployment Models and Managed Services, Virtualization
- Containers vs VMs, PaaS, SaaS, Distributed Computing, Infra Automation, Abstraction, Provisioning.

## Module 2 - Analytics in Cloud Computing

- we will examine the processes and ways in which companies utilize analytics tools and analytics software to effectively analyze large data sets.
- generating insights in readily consumable forms.
- and producing insights from cloud-based data accessible on demand.

## Module 3 - Intro to MLOps & Auto ML

Here we will learn below topics:

- H2o, PyCaret, Auto SkLearn, Auto TimeSeries, Auto ViML, Auto Gluon, Auto Viz, Tpot
- Kubernetes, ElasticSearch, Kibana, Git, Jenkins

## Capstone Projects from Cloud Computing domain :

- Developing Cost Effective Data Mining Applications
- Developing Secure Data Storage and Processing Applications
- Developing Remote Controlling Smart Devices



## + Can I select multiple domain electives?

- You can select multiple electives based on your career goal and work experience/academics.

## + What if I don't have any prior experience in any domain?

- Even if you don't have any prior experience, you can still opt for any elective to gain Domain Expertise and work on Real - Time Industrial Projects.

## + Can I change my domain electives later ?

- Yes, you can change your elective or repeat the training later within the Course Accessibility Duration.

## + Are there any additional charges for electives?

- No, there are no additional/ hidden charges.

## + How many capstone projects do I need to work?

- You can work on all projects, or depending on your experience and goal. For eg, Having 1-2 yrs of experience you must work on 4-5 projects.

**Note:** We keep updating trending projects and case - studies as per the market/company requirement. You can also Bring your own project.



Stay updated with newest content (Infographics, Interview Q&A, Job Updates and more) on Data Science and AI.



Subscribe to our YouTube Channel and Watch Full Tutorial of Domain Specific Projects, Guided by Industrial Experts





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