**VIRAJE TECH**

# CERTIFIED GCP

## PROGRAM BROCHURE
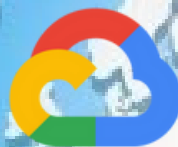
Google Cloud

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**VIRAJETECH**
E - Learning Platform

# WHY VIRAJETECH?

## "OUR VISION"

To be the safest, most progressive Technology Provider, relentless in the pursuit of Client and employee excellence

Virajetech's Placement Team has garnered a reputation for the industry's most exceptional placement records. Their dedicated efforts have facilitated the successful transition of thousands of aspirants into flourishing careers .

Google Cloud

## EXPERT TRAINERS

**10+year experianced and Industry Experts**

Elite Faculty from Prestigious universities with deep research and coaching expertise

## JOB ASSISTANCE

**End to End job Support**

Personalized resume and interview preparation support Job updates and connects

## COMPREHENSIVE

**30 hours & 700+ Learning Hrs.**
Syllabus aligned with virajetech standards and rigorously updated to match with latest industry requirements

## REALTIME EXPERIENCE

**Projects and Internships**
20 capstone projects and 1 client projects with active interaction Internship -developing POCs

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# PROGRAM STRUCTURE

- **THE COURSE FOR BEGINNERS PROFESSIONALS AND INTERMEDIATE LEARNERS IN THE FIELD OF**
- **AWS THIS IS A CAREER- ORIENTED PROGRAM, DESIGNED TO IMPART A STRONG FOUNDATION**



- PRE COURSE SELF-STUDY
- HIGH QUALITY VIDEOS
- EASY LEARNING
- APPROACH.
- CERTIFICATIONS

  JOB READY PROGRAM

- LIVE TRAINING
- 30 HOUR A WEEK
- COMPREHENSIVE SYLLABUS
- HANDS-ON PROJECTS
- EXPERT TRAINERS AND MENTORS

# Google Cloud Platform Machine Learning

## WHY GCP?

GCP courses are essential in the IT industry, providing professionals with crucial skills to harness Google Cloud Platform's (GCP) robust cloud computing services. In the rapidly evolving IT landscape, businesses increasingly rely on cloud solutions for improved scalability and efficiency. GCP courses cover diverse topics, including IaaS, PaaS, and SaaS, empowering IT professionals to adeptly implement cloud-based solutions. The inclusion of data analytics, machine learning, and AI tools further enhances the relevance of these courses in meeting the industry's demand for advanced technologies. As organizations continue to migrate to the cloud, GCP-certified professionals are highly sought after, making these courses instrumental in shaping successful IT careers.

# 1.Introduction to GCP for Machine Learning

- *Overview of GCP services for machine learning*
- *Introduction to cloud-based machine learning*
- *Key concepts and terminologies in GCP ML*
- *Role of GCP in modern machine learning workflows*
- *Cloud advantages in ML over traditional approaches*
- *Overview of compute, storage, and networking in GCP ML*
- *Significance of machine learning in the cloud environment*
- *Real-world use cases of GCP ML solutions*
- *Importance of scalability in machine learning*
- *Career opportunities in GCP machine learning*

# 2.GCP ML Services Overview

- *Overview of AutoML for automated model development*
- *Building and deploying machine learning models with AI Platform*
- *BigQuery ML for machine learning with SQL*

- *Cloud AI Building Blocks for pre-trained models*
- *Customizing and fine-tuning models with AI Platform*
- *TensorFlow and PyTorch support in GCP*
- *Integrating ML services into applications*
- *Real-world use cases of GCP ML services*
- *Cost considerations in GCP ML solutions*

## 3.GCP ML Model Development and Deployment

- *Preprocessing and feature engineering with AI Platform*
- *Model training and hyperparameter tuning*
- *Evaluating and validating machine learning models*
- *Deploying models with AI Platform*
- *Creating and managing model versions*
- *A/B testing and canary deployments in ML*
- *Security considerations in model deployment*
- *Real-world use cases of ML model development and deployment*
- *Model monitoring and management in production*

## 4.GCP ML Operations and MLOps

- *Continuous Integration and Continuous Deployment (CI/CD) for ML*
- *Model versioning and artifact management*

- *Automating ML workflows with Kubeflow*
- *Model serving and scaling in production*
- *Monitoring and logging in ML workflows*
- *Ensuring data privacy and security in ML operations*
- *Real-world use cases of MLOps in GCP*
- *Performance optimization strategies for ML workflows*
- *Cost considerations in ML operations*

## 6.GCP ML Data Preparation and Feature Engineering

- *Data preprocessing and cleaning with AI Platform*
- *Feature engineering techniques in GCP*
- *Handling missing data and outliers in ML datasets*
- *Data transformation and scaling for ML models*
- *Leveraging BigQuery ML for feature engineering Real-*
- *world use cases of ML data preparation and feature engineering*
- *Best practices for efficient data preparation in ML*
- *Impact of quality data on ML model performance*
- *Career opportunities in ML data preparation and feature engineering*

## 7.GCP ML Model Interpretability and Explainability

- *Interpreting models with AI Explainability*
- *Understanding feature importance and contributions*
- *Explainable AI techniques in GCP*

- *Evaluating model fairness and bias*
- *Visualizing and communicating model insights*
- *Real-world use cases of ML model interpretability*
- *Best practices for interpretable ML models*
- *Ethical considerations in model interpretation*
- *Career opportunities in ML model interpretability*

## 8.GCP ML Model Monitoring and Evaluation

- *Real-time and batch monitoring with AI Platform*
- *Detecting model drift and concept changes*
- *Evaluating model performance over time*
- *Implementing metrics and thresholds for model monitoring*
- *Handling anomalies and unexpected behavior*
- *Model retraining and updating strategies*
- *Real-world use cases of ML model monitoring*
- *Best practices for effective model evaluation*
- *Impact of continuous evaluation on ML model lifecycle*

## 9.GCP ML Security and Compliance

- *Identity and Access Management (IAM) principles*
- *Roles, permissions, and policies in GCP ML*
- *Securing ML models and datasets*
- *Compliance standards in GCP ML*
- *Managing access controls for ML resources*

- *Securely managing secrets and credentials*
- *Privacy considerations in ML workflows*
- *Real-world use cases of GCP ML security*
- *Career opportunities in GCP ML security*

## 10.GCP ML Advanced Topics and Specialized Models

- *Leveraging custom models with TensorFlow and PyTorch*
- *Transfer learning and model fine-tuning*
- *Advanced natural language processing (NLP) with AutoML*
- *Image and video recognition with AutoML Vision*
- *Time series forecasting with AutoML Tables*
- *GCP's support for custom ML algorithms*
- *Real-world use cases of advanced ML models*
- *Best practices for deploying specialized ML models*
- *Impact of advanced ML on business outcomes*

## 11.Capstone Project

- *Designing and implementing a machine learning solution*
- *Selecting appropriate GCP services for the project*
- *Project presentation and review*
- *Integrating multiple GCP ML services in the project*
- *Implementing security and compliance measures in the project*
- *Real-world application of ML concepts*
- *Addressing challenges and making project improvements*
- *Showcasing the project's impact on business goals*
- *Career pathways and opportunities after completing the course*

# INTERNSHIP

Explore valuable internship opportunities with us! Join a dynamic and innovative environment, collaborate on real-world projects, and enhance your skills. We're seeking motivated individuals with a passion for learning and strong communication skills. This internship offers hands-on experience, exposure to industry best practices, and potential career pathways.



# VIRAJETECH EXPERTISE CLASS

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# PLACEMENT ASSISTANCE TEAM

**PROJECT MENTORING**

35 hours Live Mentoring in industry projects

**DOUBTS SESSIONS**

Twice a week, Live doubts session from mentors and experts

**JOB COUNSELLING**

Mapping your profile to suitable job role

**INTERVIEW QUESTIONS**

Frequently asked interview questions course included

**ALUMINI CONNECT**

Connect with successful Alumni to learn from experience

**RESUME SUPPORT**

Personalized resume creation support from professionals

# PLACEMENT ASSISTANCE

# OUR LEARNER'S FEED BACK

## HIGHEST LEVEL OF CUSTOMER DELIGHT

**ruchi s**
1 review · 3 photos
★★★★★ 3 months ago

VirajeTech has been a game-changer for me. Their training courses have provided me with the skills I needed to excel in my career 4X. The instructors and Arjun sir are passionate about what they do, and it shows in their teaching. Hands on and practical way of teaching, I highly recommend VirajeTech to anyone looking to further their knowledge and skills

**Anoop G**
6 reviews
★★★★★ 3 months ago

Getting placed at Amency was a dream come true, and I owe a big thank you to VirajeTech for making it possible. The instructors were experts in their field, and they created a supportive learning environment. The hands-on approach and practical exercises made all the difference.

**Sachidanand Shahane**
3 reviews
★★★★★ 7 months ago

I am part of the AWS Associate master Class. The course was designed in a fashion that we are able to cover most of the content in a very short time. our trainer Kumar sir clarified any doubt we had and also pushed us to do the practicals which is really helpful in the learning process. Hi having vast knowledge and experience in Devops and Multi cloud platform(AWS,Azure,GCP),he provide the opportunity to get as much knowledge and guidance as possible. each session are interactive has real time use cases.

**Sayali Gawde**
2 reviews
★★★★☆ a year ago

Thanks for the AWS tutoring by Virajtech. The best decision I have taken in my career so far. Instructor was very helpful and gave all possible solutions related to the problem which we faced in real time scenarios. This is what I have experienced in this course, a very practical and beneficial one.

**Piyush Poply**
2 reviews
★★★★★ 3 years ago

I am connected with this organization since its inception. This is one of the best places to learn, practice and grow your skills up to the standards of the industry. As in IT industry, maintaining your skills and updating yourself is the most important thing, we should never stop learning and this is exactly what this institute provides. The online classes are really great as well as the trainers.

**Harpreet Singh**
12 reviews
★★★★★ 7 months ago

Give very detailed explanation and also live teaching classes. Covering all latest topics which for sure help in getting jobs in today's market

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# ADMISSIONS AND CONTACTS

**ENQUIRE FOR DETAILED INFORMATION FOR ENROLLMENT**

**DURATION:35 HOURS**
**LEARNING : ONLINE MODE**

**b 1st floor, 64, 3rd Cross Rd, Electronics City Phase 1, Electronic City, Bengaluru, Karnataka 560100**
**PHN NO:8618501719**

**8 HRS/WEEK**

**SELF STUDY**

+

**8 HRS/WEEK**

**INSTRUCTOR LED LIVE ONLINE LEARNING**

+

**4 HRS/WEEK**

**PROJECTS & ASSESSMENTS**

**20 HOURS A WEEK COMMIMENT**

**GCP** IS RATED AS **THE TOP CAREER**

**HIGHEST PAID –RECESSION PROOF –MILLIONS OF JOBS**

TAKE YOUR FIRST STEP TOWARDS GCP CAREER

**ENQUIRE NOW**

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**Instagram** virajetech instagram link

**Email** info@virajetech.com

**Telegram** telegram link

**WhatsApp** virajetech whatsup link

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