ICT ACADEMY OF KERALA

CELEBRATING EXCELLENCE
10 YEARS
ICT ACADEMY OF KERALA

UPSKILLING PROGRAM
AWS
CERTIFIED DEVELOPER

Why AWS Certified Developer?

This program is designed to provide participants with a comprehensive understanding of how to effectively interact with various AWS services for building and deploying web applications. It covers the use of AWS SDKs, the Command Line Interface (CLI), and the Management Console to manage cloud resources, configure permissions, implement business logic, and set up secure authentication protocols. Participants will also learn how to troubleshoot issues that may arise during the deployment and management of applications on AWS. The program emphasizes practical learning through hands-on labs, where participants will work with Python code examples to reinforce the core concepts and gain valuable experience in real-world scenarios, ensuring a deeper grasp of cloud-based application development.

DURATION
3 Months
(275 Hrs.)

PROJECT DURATION
75 Hrs.
(Capstone Project)

COURSE DELIVERY
Instructor - Led
(Online)

✓ **Industry-relevant curriculum with hands-on training**

✓ **3-months FREE LinkedIn Learning access worth 12k**

✓ **Career advancements with the ICTAK placement portal**

Participating in an upskilling program offers a multitude of benefits, including enhancing employability and preparedness for the competitive job market, refining expertise and proficiencies in a specific area, expanding earning potential and opportunities for career advancement, meeting the demand for skilled professionals within industries, and staying updated on the latest trends and technological advancements relevant to the field.

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Scope of the Program

The AWS Certified Developer program covers an introduction to Amazon Web Services (AWS) and its various offerings, providing participants with a foundational understanding of the platform. The program includes practical training on developing applications using Python on AWS, enabling learners to leverage AWS services to build scalable and efficient cloud-based solutions. Through this course, participants will gain hands-on experience with AWS tools and best practices for developing, deploying, and maintaining applications in the cloud.

Objectives

- Build an end-to-end cloud application using AWS SDKs, AWS CLI, IDEs, and IAM permissions for development environments.
- Perform CRUD operations on Amazon S3 and DynamoDB, integrate AWS Lambda with other services, and design using microservices and serverless architectures.
- Develop API Gateway components, integrate with AWS services, and use Amazon Cognito to control user access to resources.
- Apply DevOps practices with AWS tools, deploy using AWS SAM, and monitor applications with Amazon X-Ray.

Agenda

- Cloud Computing Fundamentals
- Compute Services
- Networking Essentials
- Storage Solutions
- Security and Monitoring
- Cost Management and Cloud Migration
- Development Environment Setup
- Amazon S3 Operations
- Working with DynamoDB
- Serverless Computing
- Microservices Architecture
- Advanced Security and DevOps
- Observability
- Capstone Projects

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About ICTAK

The ICT Academy of Kerala (ICTAK) is a not-for-profit organization formed by the Government of India, the Government of Kerala, and leading IT industry players like TCS, UST, IBS, and Quest Global. ICTAK offers various ICT and life skills programs such as Microsoft, Java, DevOps, Cyber Security, Artificial Intelligence/Machine Learning, and so on. Recognized by the Government of Kerala's Department of Electronics & IT, ICTAK provides comprehensive training with capstone projects and internships to prepare the next generation of ICT professionals. In the 2023-24 period, it expanded its partner network to 282 academic institutions, impacting over 12,000 students and 600 faculties. With 182 corporate partners, ICTAK organizes events, hackathons, and conferences to develop new ICT courses and promote digital literacy. Through partnerships with the government, it focuses on capacity building and project execution. Over the last decade, ICTAK has trained 1,20,000 participants and received national recognition for its innovative training practices from the Indian Society for Training & Development (ISTD).

Eligibility

- Engineering or science graduates/ three-year diploma holders in any engineering branches
- Final year/pre-final year students of the above courses
- Foundation level knowledge (plus two equivalent) in Mathematics and Computer fundamental skills
- Students who have completed graduation but are awaiting final results

Please note that the ICT Academy of Kerala will have the right to cancel the candidature at any point if found ineligible.

INFORMATION & COMMUNICATION TECHNOLOGY ACADEMY OF KERALA
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