

# GAYATHRI NANDHAKUMAR

## Guest Faculty / Lab Instructor – Cloud Computing

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[Portfolio: https://gayathri-nandakumar16.github.io](https://gayathri-nandakumar16.github.io)

## PROFESSIONAL SUMMARY

Computer Science graduate with strong academic and hands-on expertise in Cloud Computing and AWS services. Experienced in handling UG-level cloud theory and laboratory sessions, teaching cloud fundamentals, virtualization, deployment models, cloud security, and AWS labs aligned with UGC, AICTE, and Indian university curricula. Actively involved in workshops, student mentoring, and practical cloud training.

## EDUCATION

### Bachelor of Science in Computer Science

Srimad Andavan Arts & Science College, Trichy

Bharathidasan University | 2021 – 2024

CGPA: **8.09**

## CLOUD COMPUTING SYLLABUS COMPETENCY (UG LEVEL)

- Cloud Computing Concepts and Architecture
- Cloud Service & Deployment Models (IaaS, PaaS, SaaS | Public, Private, Hybrid)
- Virtualization and Cloud Infrastructure
- AWS Core Services (EC2, S3, IAM, VPC – Basics)
- Web Application & Static Website Hosting
- Cloud Storage, Security, IAM, Monitoring, and Cost Optimization
- Introduction to Multi-Cloud and DevOps Concepts

## TECHNICAL & TEACHING SKILLS

**Cloud Platform:** AWS (EC2, S3, IAM, CloudWatch, SNS) | **Infrastructure:** Terraform (Basics)

**Web:** HTML, CSS, JavaScript, PHP | **Database:** MySQL | **OS:** Linux

**Tools:** Git, XAMPP, Apache Server

**Teaching:** UG Lab Instruction, Student Mentoring, Workshop Delivery, Curriculum Support

## TEACHING & PROFESSIONAL EXPERIENCE

### Cloud Trainer

Elysium Academy Pvt. Ltd. | Apr 2025 – Dec 2025

- Delivered UG-level cloud computing lectures and laboratory sessions
- Conducted hands-on AWS training (EC2, S3, IAM, CloudWatch)
- Guided students through mini-projects and real-time lab exercises
- Demonstrated cloud deployment, monitoring, and security best practices

### **Cloud Computing Intern**

Brainwave Matrix Solutions | Feb 2025 – Mar 2025

- Assisted in AWS lab setup and cloud service demonstrations
- Worked on EC2, S3, and CloudWatch-based exercises

### **Cloud Intern**

CODTECH IT Solutions | Jan 2025

- Performed hands-on tasks on AWS storage, monitoring, and alert configuration

## **ACADEMIC & LAB PROJECTS**

- Infrastructure as Code using Terraform – Automated AWS resource provisioning
- Cloud Monitoring and Alert System (AWS CloudWatch & SNS)
- Multi-Cloud Architecture Design (AWS & GCP)
- Cloud Security and IAM Implementation
- Web-based Event Management System
- ML-Based Cloud Scheduling & Secure Cloud Key Agreement

## **WORKSHOPS & ACADEMIC ACTIVITIES**

- Conducted AWS and cloud computing laboratory sessions at Elysium Academy
- Conducted a 2-Day Cloud Computing Workshop at Trichy National College (150+ students)
- Delivered a seminar on Cloud Cost Optimization Techniques

## **CERTIFICATIONS**

- AWS Solutions Architect – Training Certification (Non-Associate) – FITA Academy, LinkedIn Learning
- Linux Fundamentals – LinkedIn Learning

## **ACHIEVEMENTS & ACADEMIC LEADERSHIP**

- Best NSS Head Girl – Srimad Andavan Arts & Science College
- Best Cultural Performer – Srimad Andavan Arts & Science College
- Hosted 30+ academic and institutional events