

# Dipesh Mandal

Proficient in AWS Cloud Services, DevOps, Coding, Scripting, Troubleshooting, Automation, and Support.

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[GitHub](#) | [linkedin](#) | [Portfolio](#)

## Project

### Responsive Serverless Web Application Deployment Using AWS

#### Lambda, API Gateway, DynamoDB, CloudFront, and S3 | [Link](#)

- Developed a scalable, maintenance-free student data management web application using AWS Lambda, API Gateway, and DynamoDB.
- Utilized Amazon S3 and CloudFront to deliver fast, low-latency content globally.
- Optimized costs with AWS's pay-as-you-go model and ensured data security through IAM roles and encrypted DynamoDB storage.

### Design and Manage infrastructure with Terraform while

#### automating deployment workflows using GitHub Actions. | [Link](#)

- Streamlined AWS resource setup (VPC, EC2, SG, ALB) with Terraform to automate infrastructure provisioning for consistent and repeatable deployments.
- Deployed EC2 instances across multiple availability zones with ALB for enhanced fault tolerance and high availability.
- Automated infrastructure updates and version control using GitHub Actions to ensure seamless CI/CD deployments.

### End-to-End Real-Time Data Streaming Pipeline with Kinesis, AWS Glue, S3, and Athena.

- Utilized Amazon Kinesis to stream live data for real-time processing.
- Applied AWS Glue for ETL processes and stored processed data in Amazon S3.
- Automated data cataloging using AWS Glue Crawler for easier access.
- Leveraged Amazon Athena for fast, serverless querying of data stored in S3.

### Serverless Email Marketing Application Using AWS Lambda, IAM, S3, SES, and EventBridge. | [Link](#)

- Automated email campaigns using AWS Lambda to process contact lists and templates stored in S3 for personalized communications.
- Utilized Amazon SES for reliable and scalable email delivery at high volumes.
- Automated email scheduling with EventBridge to ensure timely, event-driven delivery.
- Ensured security, scalability, and cost-efficiency through the use of IAM policies and a serverless architecture.

## Work Experience

### Process Associate

Phoenix Advanced Software Pvt. Ltd, Jaipur

Sep 2021 - May 2023

- Automated server setup and software updates on **Ubuntu** and **CentOS** using **Ansible**, reducing manual configuration by 90%.
- Analyzed sales data and click performance for McAfee and Norton, implementing adjustments that led to a significant improvement in revenue generation.
- Streamlined administrative Processes with automation, reducing errors and boosting operational efficiency.

## Certification

AWS Cloud Practitioner | [Link](#)

AWS Solution Architect Associate | [Link](#)

## Technical Skills

- AWS.
- Ansible.
- Terraform.
- Plesk.
- Jenkins.
- Docker.
- Kubernetes.
- Maven and SonarQube.
- Git and GitHub.
- YAML.
- Bash Scripting.
- Python and BOTO.
- Grafana.
- PostgreSQL.
- Linux and Windows.
- RHEL, Ubuntu, CentOS.

## Education

### B.Tech in Computer Science

Rajdhani Engineering College, Jaipur

**Expected Graduation: 2025**

**CGPA - 7.89**

### Diploma in Computer Science

Shekhawati Group of Institutions, Sikar

**Sep 2018 - Sep 2021**

**CGPA - 7.45**

## Coursework

Data Structure & Algorithms,  
Operating System,  
Object Oriented Programming,  
Computer Network,  
Machine Learning.

## Achievement

- Optimized Infrastructure:** Reduced provisioning time by 30% with Ansible, Python, and YAML automation.
- Improved Reliability:** Enhanced uptime by 95% through Ansible-powered automated troubleshooting and monitoring.