

# MUTHUKUMARAN K

## AWS Certified | Aspiring Cloud & AI/ML Specialist

Github: [Github](#)

Portfolio: [Portfolio](#)

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## EDUCATION

UG | PRESENT[2022-2026]

**B.Tech in Artificial Intelligence and Data Science**

KPR Institute of Engineering and Technology

CGPA: 7.960

## COMPETENCIES

### CLOUD COMPUTING:

- AWS(Amazon Web Services)

### PROGRAMMING LANGUAGES :

- Basic C
- Java
- Python
- Basic R
- HTML, CSS, JavaScript

### DATABASE LANGUAGES :

- MySQL
- Oracle SQL
- Mongo DB

### Tools & Technologies:

- AWS
- VMware
- Linux
- Docker
- Git
- Github
- Google Colab

## CERTIFICATIONS

- AWS Certified Cloud Practitioner – AWS
- Data Acquisition - Nasscom
- Python Classes and Inheritance - Coursera
- Introduction to MongoDB - MongoDB
- Linux Fundamentals - Coursera

## CO-CURRICULAR ACTIVITIES :

- **AWS APAC Solutions Architecture**

**Role:** Solutions Architect

**Key Contributions:** Designed scalable hosting architecture, communicated technical concepts to clients.

## Experience

Cloud Computing using AWS | Intern

### ONE DATA SOFTWARE SOLUTIONS

Foundation in cloud computing with hands-on experience from a 3-week internship at One Data Software Solutions, focusing on AWS infrastructure management.

### CODTECH IT SOLUTIONS

- Developed and deployed scalable AWS cloud infrastructure, enhancing resource allocation and performance.
- Gained hands-on experience with AWS tools, including EC2, S3, and IAM, focusing on cloud security and management.

### EISystems Technologies

- Utilized AWS Lambda for serverless computing, enabling automated processes and reducing deployment time.
- Designed and implemented a cloud-based project using AWS services to enhance operational efficiency.

## PROJECTS

### Farmer's AI Chatbot

- Developed an AI chatbot for farmers, providing market prices, pest control, and fertilizer recommendations using OpenRouter AI models for intelligent query classification. Built with Flask, LangChain, JavaScript, and Pandas for real-time, region-specific insights.

### Deploying a Web Application in the Cloud

- Built and deployed a scalable web application on the cloud, setting up a virtual server, configuring resources, and ensuring performance, accessibility, and security through essential cloud tools.

### Emotion Recognition System with OpenCV and DeepFace

- Built a real-time facial emotion recognition system using OpenCV for image processing and DeepFace for emotion classification, achieving high accuracy through parameter tuning and pre-trained models.

- **Amazon ML Challenge:** Successfully completed a 3-day virtual hackathon, tackling product attribute extraction from images using machine learning techniques.