MUTHUKUMARAN K

AWS Certified | Aspiring Cloud & AI/ML Specialist

Github: Github

Portfolio: Portfolio

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in @Muthukumaran

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
- Introduction to Industry 4.0 and Industrial Internet of Things - NPTEL
- Introduction to MongoDB - MongoDB
- Linux Fundamentals - Coursera

CO-CURRRICULAR 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.

Automated Image Resizing and Transfer System Using AWS

- Designed a serverless, event-driven AWS architecture using S3, Lambda (Python, Pillow), and SNS to automate secure, scalable image processing and storage, improving operational efficiency and reducing manual intervention for high-volume workflows.

Resume Parser with OpenAI & LangChain

- Built a high-performance pipeline to extract structured candidate data from .pdf and .docx resumes using GPT models and LangChain. Supports schema validation, multi-threaded execution, and extensible deployment via web or database.

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