Lokesh Bheemagani

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Professional Summary

A versatile and results-driven Computer Science graduate (AI & ML) with a proven ability to design, develop, and deploy end-to-end software solutions. Combines strong foundations in software engineering with specialized skills in machine learning and cloud infrastructure automation. Experienced in building AI-powered applications, developing scalable AWS architectures using Infrastructure as Code, and implementing robust DevOps practices. A collaborative team player eager to tackle complex challenges in a fast-paced, innovative environment.

Technical Skills

- **Programming Languages:** Python, JavaScript, SQL, Bash

- **AI/ML & Data Science:** Machine Learning, Scikit-learn, Pandas, NumPy, Model Training & Evaluation, Anomaly Detection, EDA, LLM APIs

- **Cloud Platforms & DevOps:** AWS (EC2, S3, RDS, VPC, IAM, CloudFront, Route 53), Terraform (IaC), Docker, Kubernetes, CI/CD (GitHub Actions, Jenkins), Prometheus, Linux Administration

- **Web & Databases:** React, HTML, CSS, MySQL, MongoDB

- **Concepts & Methodologies:** Microservices, Distributed Systems, Object-Oriented Programming (OOP), Data Structures & Algorithms, Agile Methodologies, Security-First Design

Project

AI-Driven DevOps Monitoring & Automation Agent | GitHub Repo

- **Engineered an AI-powered solution** for real-time system monitoring, applying **machine learning (Scikit-learn)** for anomaly detection to proactively reduce potential downtime.

- **Designed and implemented a full-stack application** by integrating with **Prometheus** for metrics collection and the **Slack API** for automated alerting and remediation workflows.

- **Containerized the microservice** using **Docker** for consistent deployment, demonstrating a DevOps mindset in bridging development and operations.

Network Traffic Classification Engine using Machine Learning | GitHub Repo

- **Developed and optimized ML models (SVM, Decision Trees, Naïve Bayes)** to solve a complex data analysis problem, achieving **over 90% accuracy** in classifying network patterns.

- **Implemented the full ML pipeline** including data preprocessing, feature engineering, model training, and rigorous evaluation, showcasing strong **software engineering practices** in AI.

- **Applied algorithms and data structures** to efficiently handle and process large datasets, ensuring model performance and scalability.

Secure & Automated 3-Tier AWS Infrastructure | Walkthrough

- **Architected and deployed a highly available, secure cloud infrastructure** for a web application using **AWS (EC2, RDS, VPC, Auto Scaling)** following best practices for resilience and security.

- **Automated provisioning using Infrastructure as Code (Terraform)**, eliminating manual errors and ensuring consistent, repeatable environments across development and production.

- **Established a security-first foundation** by configuring IAM roles, security groups, and WAF, protecting the infrastructure from potential threats.

SmartNutri – Full-Stack Nutrition Tracker Application | GitHub Repo

- **Built a full-stack web application** from the ground up using **Python, JavaScript, HTML, and CSS**, demonstrating proficiency in end-to-end **software development**.

- **Designed the database schema** and implemented backend logic for meal logging and user data analytics, applying **object-oriented programming** principles.

- **Managed the project through iterative development**, utilizing **Git** for version control and employing debugging skills to ensure a quality user experience.

Education

B.Tech– Computer Science & Engineering (AI & ML)
Malla Reddy College of Engineering, Hyderabad
Nov 2021 – Jul 2025 | CGPA: 7.08

Certifications

- **Python Web Developer** – ICT Academy (Mar 2025)

- **AWS VPC Infrastructure Provisioning** – Brainovision (Mar 2024)

- **AWS Cloud Practitioner Essential –** AWS (Sep 2025)