GUDURU HEMANTH KUMAR REDDY

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Portfolio: hemanth4279.github.io/portfolio

Objective

Dynamic and results-driven fresher with a strong work ethic, determination, and excellent delegation skills. Actively seeking opportunities in a forward-thinking organization or freelancing projects where I can leverage my technical expertise and contribute to impactful innovations.

Education

Bachelor of Technology (B.Tech) — **CGPA: 7.6/10.0** — *2022-2025*
Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Avadi
Course: Computer Science and Engineering

Diploma — **CGPA: 7.7/10.0** — *2019-2022*
Government Polytechnic College, Jammalamadugu
Course: Mechanical Engineering

School Education — **CGPA: 8.5/10.0** — *2018-2019*
Deepthi High School, B.Mattam

Skills

- **Programming Languages:** Java, Python
- **Tools and Technologies:** Docker, Jenkins, Kubernetes, ArgoCD, OpenStack, Terraform, GitHub Actions, SonarQube, Grafana
- **Cloud Platforms:** AWS Cloud
- **Operating Systems:** Linux/Windows
- **Web Frameworks:** Python Flask
- **Databases:** MySQL

Projects

- **Secure Cloud-Based Healthcare System**
  Developed a privacy-preserving healthcare system using Python full-stack technologies. Implemented RSA for secure key exchange, AES-256 for data encryption, and Searchable Symmetric Encryption (SSE) for secure queries. Integrated Role-Based Access Control (RBAC) for doctors, patients, pharmacies, and admins, with digital signatures for data integrity. Utilized MongoDB Atlas for AES-256-encrypted cloud backups, ensuring compliance with HIPAA and GDPR standards.
- **Deploying Medusa Backend on AWS ECS with Terraform, RDS & GitHub Actions**
  Built an Infrastructure-as-Code (IaC) setup to deploy the Medusa.js headless commerce backend on AWS ECS using Fargate. Configured PostgreSQL via RDS Aurora and hosted Docker images on Docker Hub. Automated deployment with a CI/CD pipeline using GitHub Actions. Utilized Terraform for provisioning AWS resources, including VPC, ECS cluster, and security groups, enabling a scalable and serverless deployment.
- **Blood Cancer Detection Using CNN**
  Designed a deep learning system using Convolutional Neural Networks (CNN) to classify blood sample images for early blood cancer detection. Performed extensive preprocessing of medical image datasets and fine-tuned CNN architectures to achieve high accuracy. The system supports timely diagnosis and treatment planning.

Certifications

- Python Programming Development Internship
- IBM z/OS Mainframe Practitioner
- Hands-on Linux Online Course (Frontlines EduTech Private Limited - FLM)
- AWS APAC - Solutions Architecture Job Simulation (Forage)