Sahana L

sahanal2024@gmail.com | +91 99860 98979 | GitHub | LinkedIn | Portfolio

PROFESSIONAL SUMMARY

Computer Science Engineer with strong fundamentals in programming, problem-solving, and software development. Skilled in Python, Java, SQL, and modern development frameworks with hands-on experience in building real-world applications and deploying them on cloud platforms. A fast learner with strong analytical thinking, seeking an opportunity to contribute to a dynamic organization while continuously growing in software and cloud technologies.

SKILLS

Cloud: AWS (EC2, S3, ECS, Lambda, IAM, VPC, Auto Scaling, ALB, CloudFormation, Bedrock)
Languages: Python, JavaScript (Node.js), C, C++, Java, SQL, Bash
AI/ML: Scikit-learn, TensorFlow, PyTorch, NLP, Explainable AI, CNNs, Pandas
DevOps: Docker, GitHub Actions, CI/CD, Linux (Ubuntu)
Other: Networking, Security, HTML/CSS, REST APIs

EDUCATION

HKBK College of Engineering, Bangalore   **CGPA: 8.7**
B.E. – Computer Science and Engineering

CERTIFICATIONS

- AWS APAC Solutions Architecture Job Simulation – Forage
- NPTEL Cloud Computing
- Cloud Computing Architecture – Great Learning
- Introduction to Artificial Intelligence – Great Learning

PROJECTS

Alzheimer's Chatbot for Screening & Recommendation | Python, Flask, NLP, SQLite, Explainable AI, HTML/CSS [GitHub]
- Developed a cloud-ready chatbot using Flask and NLP for Alzheimer's screening and medical Q&A.
- Designed role-based authentication, secure appointment management.
- Applied Explainable AI, integrated SQLite database for data handling.

Online Course Completion Prediction API | Python, FastAPI, Docker, Scikit-learn, Pandas, AWS ECS (Fargate), ECR, VPC [GitHub]
- Engineered scalable ML API with Random Forest/Logistic Regression/GBM for student outcome prediction.
- Containerized app with Docker, production deployment on AWS ECS Fargate and VPC.
- Developed robust ML pipeline with cloud orchestration and CI/CD integration.

Campusflow: College Management System | Node.js, Express, Flask, JavaScript, HTML/CSS, Socket.IO, Bash, Linux [GitHub]
- Engineered full-stack portal for students, faculty, and admin – assignment uploads, and backup/restore.
- Used Node.js and Flask microservices, real-time notifications with Socket.IO.
- Designed role-based dashboards and secure login.

CloudGenie – AI Cloud Advisor | AWS Bedrock, AWS PartyRock, AI/ML [GitHub]
- Developed a generative AI advisor for AWS deployments using Bedrock & PartyRock.
- Automated service recommendations and troubleshooting for cloud architects.

Portfolio Websites (AWS/CloudFront & S3) | AWS EC2, S3, CloudFront, ALB, VPC, HTML/CSS [GitHub], [S3/CloudFront]
- Launched personal portfolio sites on AWS using S3, CloudFront, EC2, VPC, and Auto Scaling.
- Achieved high availability and automated disaster recovery with ALB failover design.

PUBLICATIONS

- **A Hybrid Chatbot System for Alzheimer's Disease Screening and Treatment Recommendation Using Clinical NLP and Explainable AI.**
  Accepted at ICAAIC 2025 — an international, IEEE-affiliated conference on AI applications.