

# SAHANA A

## AI ENGINEER

### CONTACT

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### EDUCATION

2023 - Present

**DHANALAKSHMI COLLEGE  
OF ENGINEERING**

- Bachelor of Technology - Artificial Intelligence and Data Science
- 8.69 / 10 CGPA

### SKILLS

#### Programming Languages

- Python, R, C, SQL, HTML, CSS

#### Machine Learning & AI

- Scikit-learn, Pandas, Numpy, Matplotlib, NLTK
- Model building, evaluation, and deployment
- Natural Language Processing (NLP)

#### Web Development

- Flask, Jupyter Notebook
- Frontend basics (HTML, CSS)

#### DevOps & Tools

- Git, GitHub, GitHub Actions
- Docker, Jenkins
- SonarQube, Trivy

#### Databases

- SQLite, MySQL (Basics)

### PROFILE

Motivated and detail-oriented B.Tech student in Artificial Intelligence and Data Science with hands-on experience in machine learning, data analysis, and DevOps practices. Skilled in Python, Flask, and cloud-based tools with a strong foundation in building intelligent systems and secure pipelines. Actively seeking opportunities to apply AI-driven solutions in real-world scenarios.

### PROJECT EXPERIENCE

#### BedOps

JUN 2025 - PRESENT

Operational intelligence for hospital bed management (*Ongoing*)

- Building Machine Learning model to predict the number of available hospital beds (ICU & general) in nearby hospitals using historical data trends.
- Aimed at assisting ambulance systems in emergency routing by forecasting real-time bed availability.
- Planned features include alert system for high occupancy, nearest hospital suggestions, and potential integration with APIs.

#### Feast Your Feelings

APR - MAY 2025

Mood based food recommender Web App

- Developed a Python + Flask web application that suggests food based on user mood and preference.
- Designed and structured a dataset of 100+ food items mapped to 16 emotional states (eg. Happy, Sick, Excited.)
- Promotes emotional well-being through comfort food suggestions using tech-driven personalization

URL : <https://github.com/sahana-a25/feast-your-feelings>

#### Integrating Automated Security Scanning into DevOps Pipelines using Sonarqube and Trivy

MAR - MAY 2025

- Built a CI/CD pipeline integrating SonarQube and Trivy for automated code quality and security scanning.
- Used GitHub Actions, Jenkins, and Docker to automate build, test, and deployment stages.
- Deployed on Oracle Cloud as part of a college-level hackathon sponsored by Oracle, demonstrating real-world DevSecOps practices.

URL : <https://github.com/sahanaa256/Sahana-A---Devops->

### CERTIFICATION & COURSES

**CS50's Introduction to AI with Python |  
Harvard University (via edX) - *Ongoing***

JUN 2025 - PRESENT

**Introduction to Machine Learning | NPTEL**

JAN 2025

**Data Science for Engineers | NPTEL**

JUL 2024