G Sai Roopesh

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Education

Year	Degree	Institute	CGPA/Percentage
2025	B.E Artificial intelligence and machine learning	Dayananda Sagar Academy of Technology and Management	8.39/10
2021	AISSCE (12th Grade CBSE Boards)(PCMC)	Narayana e-techno school	88.8%
2019	AISSE (10th Grade CBSE Boards)	Capitol Public School	89.6%

Experience

Compsoft Technologies   **October 2023 – December 2023**
Machine Learning Intern   *Bangalore*

- Developed healthcare chatbot with **RASA** framework for healthcare applications.
- Implemented symptom-based interactions, inquiries about diseases/medicines.
- Utilized RASA **NLU** and **NLP** techniques for personalized and contextual conversations.
- Designed and implemented frontend (HTML, CSS, JavaScript) and backend (Flask in Python) components.

Projects

Pothole Detection using OpenCV | *Python, OpenCV, Tensorflow*

- Developed a Pothole Detection system using **OpenCV** and **Tensorflow** for road safety.
- Achieved over **98% average precision** and over **92% recall-rate** in identifying potholes from image feeds.
- Implemented computer vision concepts, including thresholding, edge detection, and kernel manipulation.

Staying Alive | *Python, Flask, HTML, SQLite*

- Architected and implemented the "Staying Alive" web application for **CypherQuest 2K23 Hackathon**.
- Created a registration system utilizing **Flask** framework and **SQLite** database to store user credentials and coordinates.
- Implemented **SHA-256** encryption algorithm for robust authentication in Flask applications.

Kidney Disease Classification | *Python, MLflow, DVC*

- Managed workflows including updating configuration files, entities, configuration managers, components, pipeline.
- Configured **MLflow** and **DVC** for experiment tracking, logging, and tagging models.
- Utilized **DVC** for lightweight experiment tracking and **MLflow** for production-grade tracking.
- Provided **AWS** deployment instructions: IAM users, policies, ECR repositories, EC2 instances, **GitHub Actions**.

Technical Skills

Languages: Python, Java, C, HTML/CSS, JavaScript, SQL
Developer Tools: VS Code, Intellij
Technologies/Frameworks: GitHub, DVC, MLflow

Extracurricular

Volunteer   **2021 -2025**
Way for Life(NGO)

- Raised awareness among high school students about the dangers of plastic pollution and promoted eco-friendly alternatives through educational campaigns and community initiatives.
- Played a pivotal role in supporting a plantation drive organized by Goldman Sachs, contributing to environmental sustainability efforts.

Hobbies

- Reading Novels
- Playing Chess