

RONIT SHAH

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Professional Summary

Enthusiastic and self-driven final-year student at Pandit Deendayal Energy University, passionate about pioneering innovative projects in Computer Science. Proficient in Machine Learning, Data Analysis, and Deep Learning, with a commitment to leveraging these skills for technological advancements and impactful solutions.

Experience

Bhaskaracharya Institute for Space Applications and Geo-informatics (BISAG) May 2024– Present

Geospatial Analyst and Computer Vision Intern

- **Role:** Intern focused on leveraging geospatial technologies for environmental monitoring and agricultural analysis.
- **Skills Gained:** Acquired practical experience with Google Earth Engine (GEE), QGIS, Computer Vision, and Image Segmentation.
- **Projects:**
 - * Forest Fire Detection from satellite imagery using advanced image processing techniques. Achieved high detection accuracy, aiding rapid response and resource allocation.
 - * Developed methods for farm detection, area aggregation, and crop monitoring using TIFF format satellite images. Improved agricultural planning and management through accurate boundary detections and area calculations.

CSSI at Chuwal Gram Vikas Trust

May 2022– July 2022

HIV/AIDS Precautions and Treatment

- **Role:** Actively engaged in community-driven initiatives aimed at raising awareness and providing support for HIV/AIDS prevention and treatment.
- **Activities:** Collaborated with healthcare professionals and local communities to promote health education and advocate for HIV/AIDS awareness. Reached over 500 individuals, leading to a 20 percent increase in awareness.

Projects

Semantic Segmentation in Healthcare Industry | Project Lead

- **Details:** Applied advanced image processing techniques to improve diagnostics and segment images using Deep Learning Techniques.
- **Technologies Used:** Python, OpenCV, TensorFlow, U-Net
- **Results:** Improved diagnostic accuracy by 15 percent through better segmentation of medical images for disease detection.

Sign Language Detection | Developer

- **Details:** The application interprets sign language gestures captured by a camera, converts them into text messages, and synthesizes speech output in multiple languages, enabling seamless interaction with others.
- **Technologies Used:** Python, OpenCV, TensorFlow.
- **Impact:** Benefited over 1,000 users, achieving a 90 percent accuracy rate in real-world tests and receiving positive feedback for its ease of use.

Hackathons

Smart India Hackathon (SIH) | Won in College Level

2023

- Successfully qualified from the college-level selection as one of the top teams. Developed a system for real-time threat detection using video analysis from CCTV footage to enhance security at railway stations.

Skills

- **Programming Languages:** Proficient in C, C++, Java, HTML, CSS, JS, NodeJs, ReactJs, Python.
- **Concepts:** Solid understanding of Data Structures and Algorithms (DSA), Operating Systems, Linux, Database Management Systems (DBMS), Computer Networks, and Object-Oriented Programming (OOPs).
- **Databases:** Experienced in SQL and MongoDB.
- **Machine Learning:** Strong fundamentals in model selection, evaluation, supervised/unsupervised learning.
- **Data Analysis:** Skilled in data exploration, visualization, cleaning, statistical analysis and Data Preprocessing.
- **Deep Learning:** Knowledgeable about neural networks, convolutional neural networks (CNNs), U-Net, YOLO and their applications.
- **AI:** Familiar with core concepts of artificial intelligence.
- **NLP:** Proficient with models like Gemini, OpenAI, and frameworks such as Langchain and Llama Index.

Education

Pandit Deendayal Energy University

Jul 2021 – May 2025

Bachelor of Technology in Computer Engineering, CGPA : 9.72/10.0