Hetvi Radadiya

+91 84014 29731 | hetvihradadiya@gmail.com | LinkedIn | GitHub | Kaggle
Surat, Gujarat, India

Professional Summary

Computer Science undergraduate with strong research interests in Machine Learning, Deep Learning, and Computer Vision. Hands-on experience in satellite image processing, adversarial robustness in healthcare AI, and academic research workflows including model development, evaluation, and conference presentation.

Education

- **Bachelor of Technology in Computer Science and Engineering** *July 2023 – March 2027*
  Charotar University of Science and Technology (CHARUSAT) Anand, Gujarat
- GPA: 9.44 / 10.00 (Till 5th Semester)

Internships

- **AI Quantum Smart Solutions Pvt. Ltd. (NIT Karnataka–STEP)** *May 2025 – June 2025*
  Machine Learning Intern | Online
  - Virtual internship on Machine Learning, Deep Learning, and Image Processing.
  - Developed a SAR image despeckling project for removing noise from satellite imagery.
- **Symbiosis Centre for Applied Artificial Intelligence (SCAAI)** *July 2025 – Present*
  Research Intern | Online
  - Research on adversarial attacks and robustness in healthcare deep learning models.
  - Working on research paper preparation and experimental evaluation.

Projects

- **Image Captioning Model** *2024*
  Tools: Deep Learning – CNN & LSTM
  - Built an image captioning model using CNN and LSTM to generate accurate textual descriptions.
  - Developed an interactive dashboard using Gradio for real-time caption generation.
  - Enhanced model performance by optimizing hyperparameters and training on a large dataset.
- **SAR Image Despeckling** *2025*
  Tools: Deep Learning | Satellite Image Processing
  - Removed speckle noise from large SAR images using a patch-based deep learning approach.
  - Reconstructed full-resolution outputs by merging despeckled patches.
- **iBit: Geological Feature Detection** *2025*
  Tools: Computer Vision | Roboflow
  - Self-annotated stone images with 52 geological features using Roboflow.
  - Assigned distinct colors to each feature for clear visual interpretation.

Conference Paper

- **TACNet: Architecture for SAR Image Despeckling** *2025*
  MoSICoM 2025, BITS Pilani Dubai Campus
- Presented a hybrid Transformer–Attention–CNN architecture for SAR image despeckling.
- Paper not yet published; presentation certificate received.

Skills

- **Programming Languages:** Python, C, C++
- **Machine Learning:** NumPy, Pandas
- **Specialized Areas:** Deep Learning, AI/ML Research
- **Other Tools & Technologies:** Power BI, Gradio, Jupyter Notebook, Kaggle
- **Research Skills:** Problem-solving, AI/ML Research