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EDUCATION

- **Pandit Deendayal Energy University,Gujarat** **2021-2025**
  B.Tech , Computer Engineering CGPA: 9.66
- **Gayatri Vidhyalaya, Gujarat** **2021**
  GSEB Percentage: 85.5
- **P.K Patel & U.D Bhatt Sec. & Hi-Sec English School,** **2019**
  GSEB Percentage: 83.3

EXPERIENCE / INTERNSHIP

- **Bhaskaracharya Institute for Space Applications & Geo-informatics (BISAG)** **May 2024– Present**
  Intern *Gandhinagar,* Gujarat
- **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.
  -Developed methods for farm detection, area aggregation, and crop monitoring using TIFF format satellite images to enhance agricultural planning and management.

- **CSSI at Chuwal Gram Vikas Trust** **May 2022– June 2022**
  HIV/AIDS Precautions and Treatment Social Worker *Gandhinagar,* Gujarat
  - **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.

PERSONAL PROJECTS

- **Semantic Segmentation in Healthcare Industry** | Project Lead ***June-July* 2023**
  Applying advanced image processing techniques to improve diagnostics and segmenting the images using Deep Learning Techniques.
  - **Details:** Applying advanced image processing techniques to improve diagnostics and segmenting the images using Deep Learning Techniques.
  - **Technologies Used:** Python, OpenCV, TensorFlow, U-Net Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis.

- **Sign Language Detection** | Developer **Fe*b-Apirl* 2024**
  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.
  - **Details:** Incorporated Convolutional Neural Networks (CNNs), Recurrent Neural Networks (RNNs), Graph Neural Networks (GNNs), and a Large Language Model (LLM) to recognize ASL gestures and translate them into text or speech. Enhanced inclusivity and accessibility for speech-impaired individuals.
  - **Technologies Used:** Python, OpenCV, TensorFlow.

TECHNICAL SKILLS AND INTERESTS

Programming Languages: Proficient in C, C++, Java, HTML, CSS, JS, NodeJs, ReactJs, Python, and Advanced 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, and data
preprocessing.
Data Analysis: Skilled in data exploration, visualization, cleaning, and statistical analysis.
Deep Learning: Knowledgeable about neural networks, convolutional neural networks (CNNs), U-Net, YOLO and their applications.
AI: Familiar with core concepts of artificial intelligence.
Natural Language Processing (NLP): Proficient with models like Gemini, OpenAI, and frameworks such as Langchain and Llama Index.

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.