# Apurv Chudasama

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## SUMMARY

A data scientist who explores different technical avenues using big data and machine learning to create useful solutions for engineering Life. I am aiming to align myself with organizations that promise better career opportunities and share a healthy environment for blooming minds. I am interested in learning Python, PyTorch, and C++ languages and have hands-on expertise in computer vision, Deep Learning, and Machine Learning.

## EDUCATION

**B.Tech(CSE)** **Sept. 2022 - Present**
*CSPIT, Charotar University of Science and Technology*
CGPA: 9.62/10

**HSC** **March 2022**
*GSEB, Science Percentage: 83.33*

**SSC** **March 2020**
*GSEB, Total Percentage: 89.91*

## WORK EXPERIENCE

### NullClass
*Data Science Intern* *May 2024 - July 2024,*

- Worked on a real-world computer vision project as part of a 4-member team.
- Skills Acquired: Computer Vision, Team Collaboration, Data Analysis

### CSPIT
*Technical Coordinator* *May 2023 - Present,*

- Led multiple events including hackathons, expert talks, and the tech fest "Cognizance 2024".
- Skills Acquired: Leadership, Event Management, Team Coordination

### IEEE CSPIT SB
*Secretary* *Sept 2024 - Present,*

- Organized and coordinated IEEE chapter activities, ensuring smooth operations and member engagement.
- Skills Acquired: Organizational Skills, Event Planning, Team Management

## WORKED ON PROJECTS

**Visualize-activation-maps-for-age-detection**
- This project aims to predict the age of individuals from images using a pre-trained ResNet50 model. Visualize the results using Grad-CAM.
- Technologies used: deep learning, TensorFlow, Keras, transfer learning model ResNet50, Grad-CAM Method.

**PneumoGuard: Pneumonia Detection**
- Pneumonia Detection Project utilizes deep learning with transfer learning and a classifier achieving 87% accuracy. A web application allows users to upload chest scan images for pneumonia detection.
- Technologies used: deep learning, TensorFlow, Keras, transfer learning models (e.g., VGG16, NESNet), and various classifiers (e.g., RandomForest, KNN), all implemented in Python.

**Whatsapp chat analyzer**
- Professional data analysis tool providing insights into message frequency, word usage, sentiment anylysis.
- Technologies used: Python libraries such as NumPy, Pandas, Matplotlib, Seaborn, and Pyplot.

**Easy Hand Sign Detection | American Sign Language ASL**
- Real-time Hand Sign Detection: Utilizes webcam for accurate American Sign Language (ASL) recognition, achieving 89% accuracy.
- Technologies used: Python, OpenCV, CVZone library, NumPy, TensorFlow/Keras, and Matplotlib.

**CHARUSAT Saarthi: Campus Path Navigator Robot**
- Built a path navigation robot with object detection and obstacle avoidance for guiding visitors on campus.
- Technologies used: Robotics, OpenCV, TensorFlow, Arduino, Speech Recognition.

**Theft Detection System using NVIDIA Jetson**
- Designed a theft detection model using CCTV video datasets, integrated with NVIDIA Jetson for real-time alerts.
- Technologies used: Deep learning, OpenCV, TensorFlow, Jetson AGX Xavier.

## TECHNICAL SKILLS

- Proficient in languages like C++, C, Python, SQL, and PHP.
- Expertise in machine learning, deep learning, and computer vision.
- Experience to demonstrating my ability to work with diverse programming tools and solve complex problems.

## SOFT SKILLS

Im good at **Problem Solving** and **Leadership**, which help me guide teams and tackle challenges effectively. I also have experience in **Event Management** and **Teamwork**, which allows me to organize events and work well with others to achieve our goals.

## PROFESSIONAL ACHIEVEMENTS

- **Machine Learning Specialization (Stanford online)**
- **Getting Started with Deep Learning (Nvidia)**
- **Getting Started with AI on Jetson Nano (Nvidia)**
- **Fundamentals of Red-Hat Linux (RedHat academy)**