

Analytical and passionate AI/ML developer with 1.5+ years of experience in building and deploying scalable machine learning models. Led a research project on a hand rehabilitation system, leveraging advanced AI & ML techniques. Known for delivering impactful solutions like Emotion Detection and Customer Churn Analysis & Prediction. Skilled in deploying AI-powered applications with a user-centric approach, demonstrating versatility in both backend and web development.

## EDUCATION

B.Tech Computer Science And Engineering, CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY, Anand , Gujrat ,India  
📅 July 2022 – Present (Presently in 6<sup>th</sup> semester) CGPA: 9.85/10

Class XII – School of Science, Rajkot  
📅 April 2020 – March 2022 81.33 %

## EXPERIENCE

### Artificial Intelligence Intern at CodeClause, Pune (June – 2024 to July – 2024)

- During this internship I had developed total of 2 full stack AI application which include Personality Prediction by CV analysis and which also extract all necessary information about each individual and Face reorganization application.
- Technology Stack – Python, NLP, TextTract, Spacy, Docx, NLTK, PyPDF2, Scikit-learn, OpenCV, Tensorflow

### Machine Learning Intern at EISystem Technologies, Delhi (May – 2024 to June – 2024)

- Developed an full stack application for detecting human emotions from images, videos, audios and live camera feed.
- Technology Stack – Python, Flask, Librosa, Tensorflow, Keras, OpenCV

### Machine Learning Intern at InternPe, Jaipur (April – 2024 to May – 2024)

- As an ML intern I had developed total of 4 end to end full-stack projects that includes IPL win predictor, Brest cancer prediction, Car price predictor and House price predictor applications.
- Technology Stack – Python, Flask, Numpy, Pandas, SkLearn, Matplotlib

## PROJECTS

### Hand Exercise Detection & Feedback System (July 2024 – October 2024, Research Paper Ongoing) [\[Link\]](#)

Developed an AI-powered system using MediaPipe and Random Forest to detect and provide real-time feedback for hand exercises via webcam input. Deployed on Hugging-Face for live recording, annotation, and exercise-specific feedback, enhancing rehabilitation accuracy.

### Advanced Emotion Detection System with face and voice recognition (February 2024 – March 2024) [\[Link\]](#)

Built a custom model to detect emotions from images, videos, live feeds, and audio, combining face and voice recognition. Delivered a user-friendly interface for mental health monitoring and customer service applications.

### Customer Churn Analysis and Prediction (April 2024 – May 2024) [\[Link\]](#)

Implemented machine learning models to predict customer churn, enhancing retention strategies for a telecom company. Conducted data analysis, feature engineering, and model evaluation using advanced algorithms.

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## **SKILLS**

**Computer Science Fundamentals:** Data Structures and Algorithms, Database Management Systems, Object-Oriented Programming, OS

**Languages:** C, C++, Python, Java, JavaScript

**Frameworks/Libraries:** HTML, Numpy, Pandas, OpenCV, Keras, Matplotlib, Seaborn, OpenCV, Scipy, Tensorflow, CSS, Bootstrap, Tailwind, NodeJS, ExpressJS, Git- GitHub, React

**Databases:** MYSQL, MongoDB

**Other Skills:** Data Analysis, Machine Learning, Deep Learning, Object Detection

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## **CERTIFICATIONS**

- Machine Learning by Stanford University|Deeplearning.ai (April 4, 2024) [Verify here](#)
  - Google Data Analytics specialization (March 3, 2024) [Verify here](#)
  - Google Advanced Data Analytics specialization (March 11, 2024) [Verify here](#)
  - NPTEL Database Management System with Elite Grade [Verify here](#)
  - Data Analysis with Python by IBM (December 7, 2023) [Verify here](#)
  - Fundamentals of Red Hat Linux 9 Course Certificate (March 13, 2024) [Verify here](#)
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## **COMMUNITY INVOLVEMENT, LEADERSHIP AND ACHIEVEMENTS**

- Peer Learning Facilitator, CHARUSAT University – Conducted a session on ‘Mastering CP in C++,’ earning a Letter of Appreciation. (April 2024)
  - Led a team to secure 3rd place among shortlisted teams at University-level Smart India Hackathon (SIH). (Sep.- 2024)
  - 4 Times University Topper – At CHARUSAT University (Achieved 3-time 1<sup>st</sup> rank and 1 time 2<sup>nd</sup> rank in academics).
  - 200+ streak on Leet-Code.
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