

Chaitanya Vishwakarma

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EDUCATION

Bachelor of Technology - CGPA: 7.7/10.0

2022 – 2026 | Jaipur, India

Manipal University Jaipur - Java, Web Development, DSA, OOP, SQL

Class 12th Percentage - 73%

2021 – 2022 | Pune, India

Pratibha International school and jr. college

SKILLS

Programming Languages:

C, Java, Python, JavaScript

Web Development:

HTML, CSS, Javascript, ReactJS

Soft Skills:

Product Management, Product Design, Team Management, Communications.

Database Management:

MySQL, MongoDB, Prisma

ML Skills:

TensorFlow, CNN, CycleGAN, UNIT

ACHIEVEMENTS

MRI-to-CT Scan Conversion Using CycleGAN: A Deep Learning Approach 🌐

Sep 2024 – May 2025

Research Paper

- Designed a **deep learning pipeline** for translating **CT-to-MRI scans with CycleGAN** architectures to facilitate modality translation with unpaired medical imaging data for decision support tools in clinical applications.
- Acquired hands-on experience in GAN-based medical image synthesis, **PyTorch**, **TensorFlow**, **medical image preprocessing**, and metrics like **SSIM** and **PSNR**.
- Research paper: "MRI-to-CT Scan Conversion Using CycleGAN: A Deep Learning Approach" accepted in the **IEEE International Conference on Computers, Electrical, Electronics Engineering and Their Applications (ICEE3 2025)**, hosted by **NIT Uttarakhand**. 🌐

PROFESSIONAL EXPERIENCE

Software Intern

Jan 2025 – Feb 2025

Edunet Foundation 🌐

- Develop AI models for sustainability, focusing on **plastic waste classification**.
- Work with **CNN models** for image recognition and deep learning applications. Use **Python**, **TensorFlow/Keras**, and **OpenCV** for data analysis.
- Collaborate with mentors to improve AI and analytical skills. Present findings through reports and documentation.
- Skills Gained:** AI/ML, Python, CNN, Image Processing, Sustainability Awareness. GitHub 🌐

PROJECTS

Audio Grammar Scorer

Apr 2024 – May 2024

SHL

- Crossed the technical barrier of grading audio recordings objectively for **grammatical accuracy**, allowing for **scalable language** ability assessment.
- Created an end-to-end pipeline from **Google Speech-to-Text API** for transcription, followed by custom **POS taggers** and tokenizers and **BERT** for scoring and grammar analysis.
- Gained practical experience in **audio transcription**, **transformer model tuning**, **text pre-processing** (tokenization & POS tagging), and **quantitative model analysis**.

Per-Pose

Sep 2024 – Dec 2024

Body Movements Tracking System

- Designed a **physical therapy assistant app** utilizing visual input to **guide users** through proper **exercise performance** and **track** improvement through **real-time feedback**.
- Directed **end-to-end frontend and backend system** development using the MERN stack, which included **machine learning APIs** to help with prediction services, and created the **ML model to monitor for real-time performance**.
- Acquired hands-on experience with **MERN-stack** development, **RESTful API** integration, **ML model deployment**, **cloud hosting Azure**, and system **scalability** and **performance enhancement**.

AI-CT

Apr 2025 – present

Deloitte Capstone Project

- Creating an **AI-powered CT imaging system** improving CT scan quality, **assisting radiologists** with precise decision-making, and **integrating MRI-to-CT conversion** for improved diagnostic efficiency; **guided by Deloitte Capstone specialists**.
- Integrated Google Cloud Healthcare API and DICOM Store** into an application in MERN stack to securely manage user data, support scan processing, and have an **easy-to-grasp interface for diagnostic results**.
- Skills learned in **cloud integration** (**Google Cloud Healthcare API**, **DICOM administration**), secure processing of healthcare information, **MERN stack development**, and healthcare interoperability standards.