

# TARPITA KARNAM

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## SUMMARY

Computer Science undergraduate specializing in Health Informatics with hands-on experience in full-stack development and machine learning. Skilled in building responsive web applications and predictive models using React, JavaScript, and Python-based ML techniques. Strong foundation in OOPS, and Database Management Systems.

## EDUCATION

### VIT Bhopal University

B.Tech in Computer Science (Health Informatics) — CGPA: 8.22

2023 – 2027

Bhopal, India

### Loyola School

12th Grade — 87%

2023

Jamshedpur, India

### Loyola School

10th Grade — 90.2%

2021

Jamshedpur, India

## EXPERIENCE

### Frontend Developer Intern

Info Bharat Interns

Dec 2025 - Jan 2026

Remote

- Developed Teccho Hotel Booking Web App, a complete hotel booking platform with responsive UI and seamless booking workflow.
- Implemented room listings, booking and checkout flow, authentication system, and order history management.
- Built scalable state management using Redux Toolkit and structured routing with React Router.
- Designed responsive layouts using Tailwind CSS to ensure cross-device compatibility.
- Improved frontend architecture through reusable components and optimized state patterns.

## PROJECTS

### Podcast Streaming Service

2025

- Developed a responsive web application using React.js and Vite with optimized build performance.
- Designed modern UI using TailwindCSS with mobile-first responsiveness.
- Implemented seamless audio playback with efficient state management.

### Plant Disease Classification (Deep Learning)

2025

- Trained CNN and hybrid models on 120,000+ plant leaf images for automated disease detection.
- Improved accuracy using data augmentation and model ensembling techniques.
- Evaluated model performance using confusion matrix and F1-score, achieving robust multi-class classification results.

### Diabetes Prediction Model

2024

- Built ML models including Random Forest and SVM for diabetes risk prediction.
- Performed feature engineering and hyperparameter tuning to enhance precision and recall.
- Compared model performance using cross-validation and selected the best-performing model based on ROC-AUC score.

## TECHNICAL SKILLS

**Languages:** C++, Java, SQL

**Web Technologies:** HTML5, CSS3, JavaScript, React.js, TailwindCSS

**Machine Learning:** CNN, Random Forest, SVM, Data Augmentation

**Tools & Platforms:** Git, GitHub, VS Code, Vite, Canva

**Core Concepts:** OOP, DBMS

## CERTIFICATIONS

MERN Full Stack Development (ETHNUS) — Microsoft Certified: Azure Data Fundamentals (DP-900) — Java Programming & C++ Programming (Scaler)

## LEADERSHIP

### Linpack Club

2024

VIT Bhopal

*Social Media Lead*

- Managed digital presence and increased engagement by 20%.

### Notion VIT Bhopal

Feb 2024 – Dec 2025

VIT Bhopal

*Social Media Team Co-Lead*

- Lead social media strategy for workshops and tech events, boosting engagement and participation.