

# CHIRAYU KHALWA

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## EDUCATION

**Uka Tarsadia University (UTU), Bardoli, Surat—Gujarat** 2022-2026  
Bachelor of Technology in Computer Science and Engineering **SGPA: 9.13, CGPA: 8.58**

**Ashadeep International School , Varachha , Surat—Gujarat** 2020-2021  
Gujarat Secondary and Higher Secondary Education Board (Class 12) **Percentage: 81**

**Paradise English Medium School , Saroli, Surat—Gujarat** 2018-2019  
Gujarat Secondary and Higher Secondary Education Board (Class10) **Percentage: 77**

## WORK EXPERIENCE

**Intern — Initial Infotech (Onsite)** May, 2024-March, 2025  
(Mentored by Shirish Patel)

- Assisted in the development of the **Student Management System (SMS)** using **ASP.NET WebForms**.
- Designed and implemented user interfaces to enhance system usability and performance.
- Collaborated with the team to develop key features such as student enrollment, attendance tracking, and report generation.
- Conducted debugging and testing to ensure smooth functionality and optimal system performance.
- Gained hands-on experience in **C#, SQL Server, and front-end technologies** while working on the project.
- I mainly learned all basics stuff and including SQL server management and then work on projects provided by my senior.
- Frontend technologies are CSS, Bootstrap, Javascript.

## TECHNICAL PROJECTS

**Dynamic Pricing for Urban Parking Lots** – [GitHub](#) | Python, Pandas, NumPy, Pathway, Bokeh

- Designed a real-time pricing engine as part of *Summer Analytics 2025*, organized by IIT Guwahati, to optimize parking lot utilization using live occupancy, queue lengths, and traffic data.
- Implemented linear, demand-based, and competitive pricing models from scratch and visualized dynamic pricing using Bokeh interactive plots.
- Integrated geospatial proximity logic to suggest rerouting vehicles to nearby parking lots.

**E-Commerce Website** — [GitHub](#) | PHP, Bootstrap, HTML, CSS, JavaScript, JQuery

- Developed a full-stack e-commerce Donation website which included user management, donation counter, admin panel.
- I worked quite a nice on UI for this project and also used Animation for live background images and many more.
- I've designed the website's UI by myself but relied on Senior for backend implementation.

**Flappy Bird Clone** — [GitHub](#) | Java, AWT, Swing, Java Sound API, OOP

- Developed a fully functional Flappy Bird game using Java Swing and AWT. Implemented custom game loop, gravity mechanics, and collision detection. Included audio effects using Java Sound API. Demonstrated strong object-oriented programming skills and real-time rendering

## Extra-Curricular Interests & Achievements

- Video editing, Cinematography
- Kaggle Hackathon: NDVI Land Cover Classification (Summer Analytics 2025) – Ranked #446/1395 on Private Leaderboard; built classification models for satellite NDVI data using Python, scikit-learn, and advanced feature engineering techniques.
- AI Planet Hackathon: Nutrition Health Survey Age Prediction (Summer Analytics 2025, IIT Guwahati) – Ranked #176/220 on Private Leaderboard; built ensemble models (XGBoost, stacking) for health data classification using Python and scikit-learn.

<div>SKILLS</div> <div><b>Technical:</b> C, Python, Java, JS, GitHub Actions <b>Language:</b> English, Hindi, Japanese (Elementary) <b>Frameworks &amp; Packages:</b> ASP.NET Webforms, ReactJS(Learning) <b>Tools:</b> VS Code, Git, intellij IDEA, VisualSutdio <b>OS Familiarity:</b> Ubuntu (WSL) &amp; Windows</div>	<div>ACCOunt</div> <div><b>GitHub:</b> <a href="#">raysamma</a> <b>LinkedIn:</b> <a href="#">Chirayukhalwa</a> <b>Leetcode:</b> <a href="#">raysamma</a> <b>Kaggle:</b> <a href="#">chirayukhalwa</a></div>
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