

# YASH KARNANI

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## EDUCATION

**GITAM University** - B.Tech in Computer Science and Engineering ( IoT )  
CGPA - 8.22

August 2022 - Present

**Kalmadi Junior College** - Intermediate  
Percentage - 66.5

March 2022

**Hutchings High School** - ICSE  
Percentage - 96.6

March 2020

## EXPERIENCE

**Woodpecker Analytics** - Java Developer Intern ( on-site )

May 2024 - June 2024

- Developed software to automate annual maintenance contract management, to **reduce manual effort by 80%**.
- Executed IMAP for automated email processing, ticketing and contract validation, **boosting efficiency by 75%**.
- Spearheaded a data science hackathon with **9,000 teams and 1 lakh prize pool**, promoting innovation and collaboration.

**Training and Competence Development** - Intern

March 2024 - Present

- Articulated **40+ programs** to augment student competencies, focusing on personal & professional development.
- Led a team of 10 interns as Campus Lead, fostering the ability to work in a team and skill development.
- Increased social media presence from 0 to 3,000 through consistent, engaging content and stories.

**Tata Group** - Intern ( virtual )

September 2023 - September 2023

- Analyzed sales data, identified top items and customers, and strategized targeting for underrepresented regions.
- Driven management decision by supporting business scenarios with data, suggesting a focus on high-growth countries.

## PROJECTS

**Arrive O'Clock**

[Link](#)

- Innovated features using the Google Maps API within a mobile app focused on optimizing user journeys through tailored alerts about delays—personalized solutions implemented drove engagement levels up by 30%.
- Integrated Llama3 to provide personalized travel tips and recommendations, enhancing user experience with relevant insights and information during their journeys resulting in a **25% improvement** in overall satisfaction ratings.
- Technologies Used:-* API, JavaScript, HTML5, CSS

**Dynamic Traffic Management System**

[Link](#)

- Produced an intelligent system using CCTV data to optimize signal timings, **reduce congestion by 20%** and rule-breaking by 25%, while utilizing vehicle data for road improvements and infrastructure planning.
- Coordinated a successful pilot program for emergency vehicle prioritization, and a night-time safety feature to alert drivers of approaching vehicles, enhancing traffic flow and safety with real-time monitoring via a web-based interface.
- Technologies Used:-* OpenCV, YOLO, Python, ReactJS

**Oral Caries Detection System**

[Link](#)

- Designed and enforced a CNN-based system for binary classification of dental images, **achieving 55% accuracy** in detecting caries and non-caries cases, with robust preprocessing techniques like augmentation and normalization.
- Engineered visual insights using confusion matrices and probability histograms to validate model predictions, improving interpretability and aiding in the evaluation of classification performance.
- Technologies Used:-* TensorFlow, Keras, NumPy, OpenCV, Matplotlib, Scikit-learn

## POSITION OF RESPONSIBILITY

**Analytics Lead - Meta Developer Circle**

March 2024 - Present

- Led projects around optimizing operations and enhancing outcomes using computer vision with precision of 0.75.
- Guided 5 team members by teaching analytical concepts and coding, nurturing innovation and excellence.

**Head of Logistics - Aeromodelling Club**

June 2023 - December 2023

- Constructed a Thermocol hovercraft and procured the equipment for drone and aircraft parts.
- Facilitated workshops for 50+ students to construct thermocol gliders and enhance practical skills.

## SKILLS

**Tech Stack :** Python, Java, SQL, C, React, HTML5, CSS, JavaScript

**Technical :** Data Analytics, Machine Learning, Computer Vision, Web Development

**Non - Technical :** Tableau, AutoCAD, Canva

## ACHIEVEMENTS

- Participated in SIH '24 with a 6-member team, focusing on traffic management and light solutions. September 2024
- Stood 2nd in a 48-hour competitive coding hackathon with increasing difficulty across three rounds. March 2024
- Selected among 3000+ students for Catch Them Young at Infosys. May 2018

## HOBBIES AND INTERESTS

**Hobbies :** Learning about Aircraft, Playing Valorant, Playing Football, Riding a Bike

**Interests :** Aviation, Technology, Gadgets