

Yash Karnani

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Projects

Histopathologic Oral Cancer Detection	github link
<ul style="list-style-type: none">Innovated a CNN-based model to detect oral cancer from histopathological images achieving 92.45% accuracy on test data, addressing a critical global health issue with 377,713 new OSCC cases annually.Optimized model performance using techniques such as dropout, batch normalization, learning rate scheduling, and early stopping, achieving a precision of 94.17%, recall of 90.76%, and an F1 score of 92.43%.<i>Technologies Used:-</i> Neural Networks, TensorFlow, CV2, Python	
Dynamic Traffic Management System	github link
<ul style="list-style-type: none">Produced an intelligent system using CCTV data to optimize signal timing, reduce congestion by 20% and break rules 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.<i>Technologies Used:-</i> OpenCV, YOLO, Python, React, HTML5	
Arrive O’Clock	github link
<ul style="list-style-type: none">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 30Integrated 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.<i>Technologies Used:-</i> API, JavaScript, HTML5, CSS	

Experience

TCD Intern , Training and Competence Development – Visakhapatnam, AP	March 2024 – Present
<ul style="list-style-type: none">Articulated 50+ programs to enhance 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.	
AI Intern , AICTE – Online	December 2024 – January 2025
<ul style="list-style-type: none">Analyzed sales data to identify top-performing products and key customer segments, enhancing targeting strategies.Delivered actionable insights through advanced analytics, supporting strategic decisions, and optimizing market reach.	
Java Developer Intern , Woodpecker Analytics – Pune, MH	December 2024 – January 2025
<ul style="list-style-type: none">Developed software to automate annual maintenance contract management, to reduce manual effort by 80%.Executed IMAP for automated email processing, ticketing and contract validation, increasing efficiency by 75%.Spearheaded a data science hackathon with 9,000 teams and 1 lakh prize pool, promoting innovation and collaboration.	

Education

GITAM University , B.Tech in Computer Science and Engineering (IoT) CGPA: 8.34/10.0	August 2022 – Present
Kalmadi Junior College , Intermediate Percentage: 66.5	March 2022
Hutchings High School , ICSE Percentage: 96.6	March 2020

Position of Responsibility

Analytics Lead , Meta Developer Circle	March 2024 – Present
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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 Analysis, Machine Learning, Computer Vision, Web Development
Non - Technical: Tableau, AutoCAD, Canva

Achievements

Presented research on Oral Cancer Detection using CNNs at an international conference.	January 2025
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