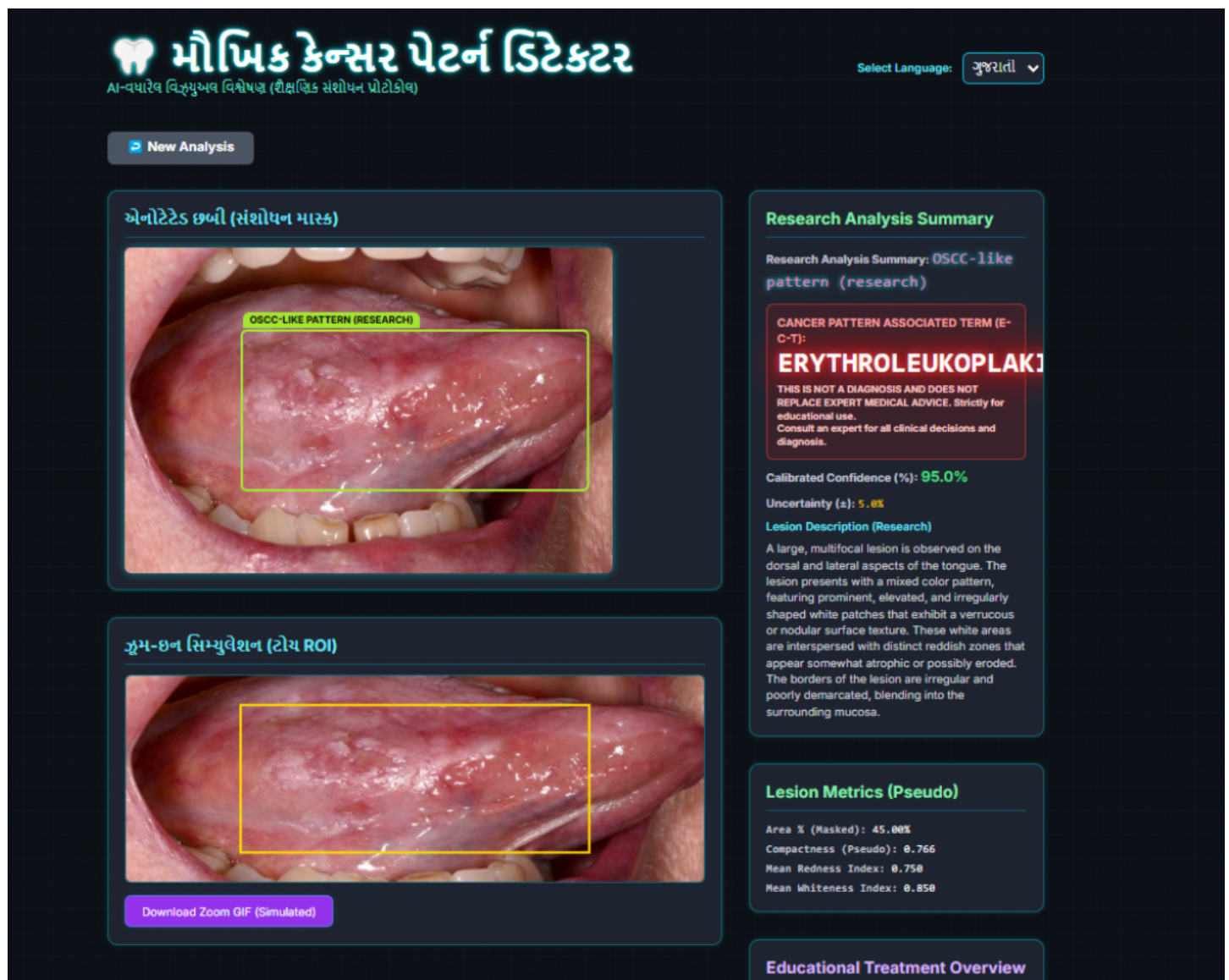


IIT Mandi Scholar Develops AI-Based Early Oral Cancer Detection Tool “SpectraOral”



Ahmedabad, Gujarat Oct 12, 2025 ([Issuewire.com](https://www.issuewire.com)) - Nikunj Vaghasiya, a Minor student in Artificial Intelligence & Data Science at IIT Mandi (CCE) and Founder of Softcodex, has developed “SpectraOral” — an advanced AI-powered early oral cancer detection tool designed to identify lesions and abnormalities at an early stage using deep learning and image-based analysis.

The project, created under the research and education initiative AI for All, uses a machine learning model trained on oral lesion datasets to recognize potential precancerous patterns with high accuracy. The system aims to assist dentists, students, and healthcare workers in both rural and urban India by enabling quicker screening through a simple image upload interface.

> “SpectraOral is designed as an assistive tool for medical professionals, not a replacement,” said Nikunj Vaghasiya, who is continuing his studies in AI and Data Science while building real-world health

tech applications from Gujarat.

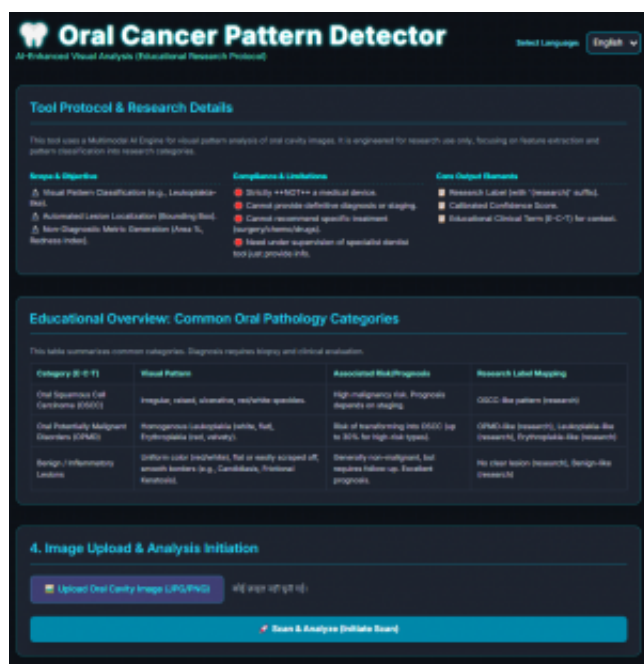
“Our vision is to raise awareness about early diagnosis and make AI technology accessible for public health.”

The live demo is available at <https://aiforall.me/spectraoral/>

This innovation aligns with the Digital India and AI for Health mission by encouraging Indian youth to apply artificial intelligence for social impact and preventive HealthCare

About the Innovator

Nikunj Vaghasiya is pursuing a Minor in Artificial Intelligence & Data Science from IIT Mandi (CCE) and is the founder of Softcodex, an Ahmedabad-based startup working on AI, automation, and innovation-driven public health solutions.





Media Contact

Aiforall

*****@gmail.com

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