

# Saurabh Upadhyay

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## Education

### Gujarat Technological University

August 2018 - May 2022

Bachelor of Technology in Computer Science (CGPA: 8.15 / 10)

Surat, Gujarat

- **Relevant Coursework:** Data Structures and Algorithms (JavaScript), Object-Oriented Programming (JavaScript, Python), AI and ML (Python), Software Engineering, Computer Networks, Operating Systems, Compiler Design.

## Experience

### Reealtech

August 2022 – Ongoing

Co-Founder & Lead XR Developer

Surat, India

- Pioneered the Development of the World's Most Advanced And India's First Virtual Tour Editor, delivering a superior VR experience that surpasses leading products like Matterport, CloudPano, and Kuula. This innovative tool empowers users with unmatched customization, seamless usability, and immersive quality.
- Currently testing 360° Video Conferencing powered by Mediasoup and WebRTC, offering immersive and collaborative virtual meeting solutions— a first-of-its-kind innovation for any real estate listing marketplace.
- Built VR Marketplaces for the real estate sectors, revolutionizing how properties are showcased and experienced.
- Contributed to freelance projects by delivering automation solutions using AWS Lambda, optimizing workflows and boosting efficiency for clients.

### Ethereal Engine (XROS Fellow - Open Source Contributor)

March 2023 – August 2023

Extended Reality (XR) Developer

Surat, India

- Migrated platform from AWS SDK V2 to V3 for code optimization, demonstrating proficiency in AWS services.
- Developed Chat Web App (UI) for existing immersive worlds, improving collaboration.
- Implemented Cron-job setup in Kubernetes for file cleanup (resource optimization).
- Contributed to bug fixes, ensuring platform stability and reliability.

### Supra Oncology & I3 Digital Health Pvt. Ltd.

March 2022 – July 2022

Machine Learning Engineer/Intern

Surat, India

- Specialized in text extraction models & deployment to Heroku/cloud environments.
- Developed & trained OCR models for text extraction from images/PDFs (enhanced data extraction).
- Created Python web scraping scripts for data collection from medical/oncology websites.

## Achievements & Certifications

### Achievements

- Among top 100 XR Developers(in India) in the XROS fellowship by Meta(Facebook), FICCI, and Reskill.
- Invited to Google Startup School for Two Consecutive Years, selected as one of the top startups from a pool of over 14,000 to participate in an exclusive networking event, showcasing innovation and growth potential.

### Certification

- Google Certified-(ACE & CDL), Tensorflow Certified Developer, AWS Academy Graduate-Cloud Architecting, Microsoft Certified-(AZ-900, PL-900), Deep Learning Specialization.
- 12+ MOOCs in Machine Learning, Extended Reality and ML-Ops.

## Projects

### Safety Equipment Detection in Construction Site. | Python, YOLOv5, Deep Learning, Neural Network, OpenCV

- Realtime Face detection, emotion detection, age & gender prediction using OpenCV and Machine Learning.
- Configured OpenCV to process video output and convert it to VLC format, ensuring compatibility and enabling seamless playback of videos in VLC media player.

## Technical Skills

**Languages:** Python, JavaScript, TypeScript, C#

**Technologies:** Three.js, A-Frame, r3f, Unity, Blender, React.js, Next.js, Tailwind, MUI, TensorFlow, PyTorch, Keras, OpenCV, Cvat, AWS, GCP, Azure, Kubeflow, Docker, Kubernetes, Git, Gitlab, Github, Terraform, Mediasoup

**Concepts:** Artificial Intelligence, Deep learning, Machine Learning, Neural Networks, Cloud Computing, Software Engineering, API, Agile Methodology