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
Founder & Lead Software Engineer   *Surat, India*
- Spearheaded the development of India's first free WebVR player.
- Led a cross-functional team in the development of a virtual tour editor for hotels & real estate:
  - Utilized cloud technologies (GCP, Azure) & infrastructure automation (Terraform).
  - Built 360 video conferencing using mediasoup and WebRTC.
- Building a dedicated VR marketplace for hospitality and real estate.
- Collaborate with cross-functional teams: Seamlessly integrate ML models into production for enhanced project efficiency (Freelance).

Ethereal Engine (XROS Fellow)   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, FICCI, and Reskill.
- Invited to join Google Startup School as one of only 40 startups chosen to attend a prestigious networking event at IIMA, from a pool of over 14,000 startups.

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

Projects

Safety Equipment Detection in Construction Site. | *Python, Yolov5, Deep Learning, Neural Network, OpenCV*
- Utilized YOLOv5, a state-of-the-art model for object detection, to develop a robust solution for detecting hard-hat usage in various scenarios, trained on a dataset of 6000 images.
- 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, TensorFlow, PyTorch, Keras, OpenCV, Cvat, AWS, GCP, Azure, Kubeflow, Docker, Kubernetes, Git, Gitlab, Github, Terraform, Mediasoup, React.js, Next.js, Tailwind, MUI,
Concepts: Artificial Intelligence, Deep learning, Machine Learning, Neural Networks, Cloud Computing, Software Engineering, API, Agile Methodology