



## Alumni Speaker Series

### AI on edge/embedded hardware and sensor fusion for autonomous perception

Talk by **Hardik Manek**  
**Head of AI at Site 20/20**

**Date:** Wednesday, October 7th

**Time:** 2:30-3:30pm

**Location:** CAR113

**Abstract:** This talk covers how AI systems are deployed on edge and embedded hardware, where compute, power, and latency constraints shape every design decision. Drawing on production systems I've led, I'll present how LiDAR, radar, camera, GNSS, and IMU data are fused into reliable real-time perception, and the practical trade-offs of taking models from prototype to product.

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**Short Bio:** Hardik Manek is the Head of AI & ML at Site 20/20, based in Dartmouth, Nova Scotia, where he leads the development of AI-powered systems deployed on edge and embedded hardware. His work spans sensor fusion, real-time perception, and applied AI solutions in areas such as anomaly detection, document intelligence, and process automation, taking systems from prototype to production. summary: "Applied AI at the Edge: Sensor Fusion for Real-World Autonomous Perception"

Hardik holds a Master of Science (MSc) in Computer Science from *Acadia University* completed in 2021.