

A06 - Class Notes

Smart Cities Wrap-Up

- **Topic Closure:** Last week of Smart Cities module.
- **Real-World Example:**
 - A murder case in Florida was solved using Alexa, which recorded voices despite claiming not to store them. Amazon's patent revealed 24/7 listening, storing voices for 3 months.
 - Introduced **eDiscovery**: Legal process requiring organizations to retain data for investigations. Used in this case to identify murderers via voice recognition.
 - Highlighted privacy concerns vs. investigative benefits of AI.
- **Remaining Use Cases Covered:**
 1. **Healthcare in Smart Cities:**
 - **Remote Health Monitoring:** Devices (e.g., Apple watches) detect falls, accidents, or emergencies and auto-connect to 911 or ambulance services.
 - **Smart Hospitals:** Digitized records, instant doctor bookings, and data sharing (e.g., abuse detection linked to police). Challenges include regulatory hurdles.
 2. **Citizen Engagement:**
 - **411 Concept:** Non-emergency citizen services (e.g., reporting suspicious activity, paying bills via apps). AI can analyze complaint surges for a proactive response.

- **Digital Kiosks:** Gather data in public spaces (e.g., parks) for safety and analytics, raising privacy concerns.
 - **Unsolved Problems in Smart Cities:**
 1. **Low Return on Investment (ROI):** City governments (non-profit) see little incentive to spend on AI when basic tech suffices.
 2. **Ethical AI Practices:** Bias and fairness issues due to diverse citizen data.
 3. **Regulatory Ambiguities:** Lack of clear legal/ethical frameworks; compliance is challenging.
 - **Problems Created by AI:**
 1. **Machine Learning Biases:** Human biases in training data perpetuate unfair treatment (e.g., payment leniency for big firms vs. individuals).
 2. **Lack of Transparency:** AI decisions (e.g., service request denials) lack explanation, unlike human-reviewed processes.
 3. **Data Breaches:** Extensive data exposure risks privacy and security.
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News Update: Grok 3 (xAI)

- **Release:** This week by xAI (Elon Musk's company).
- **Features:**
 - Real-time data (unlike ChatGPT's scheduled updates).
 - Uses: Essay writing, business ideas, market research, coding with dependencies.